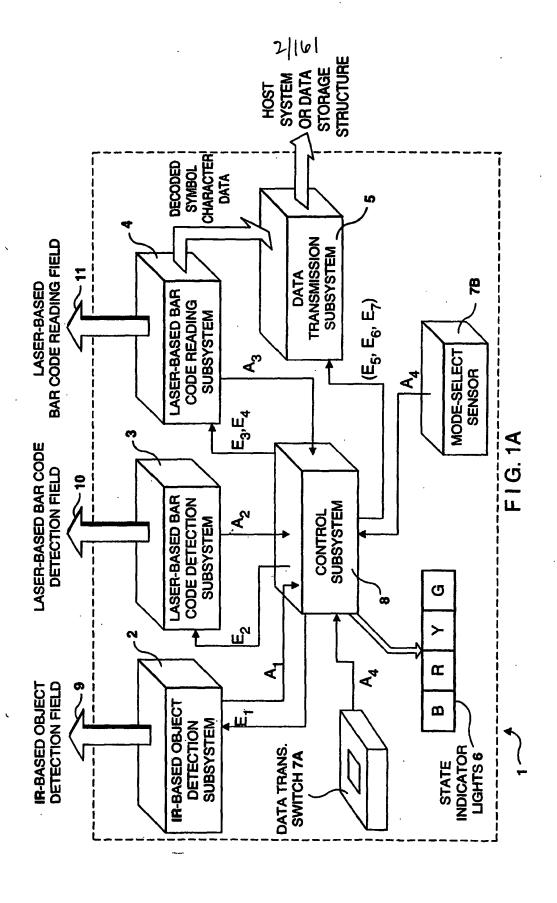
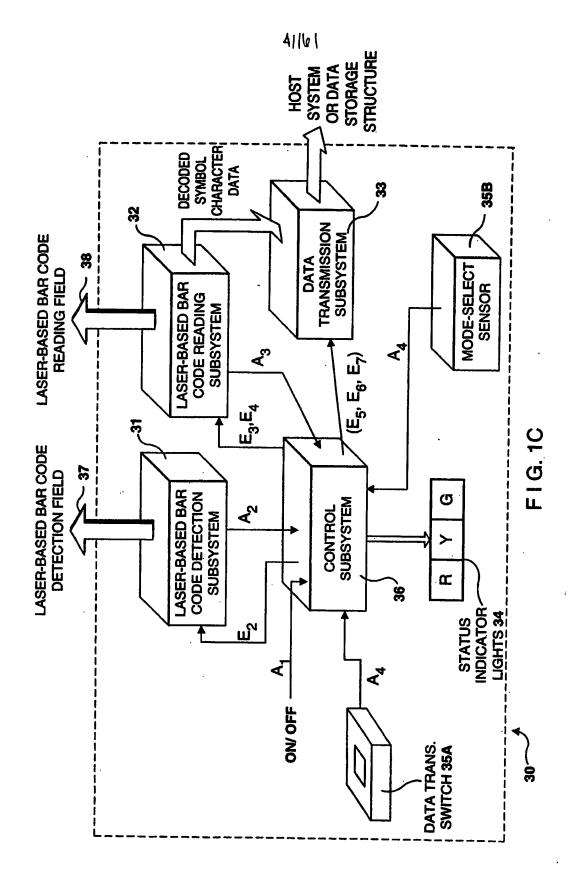
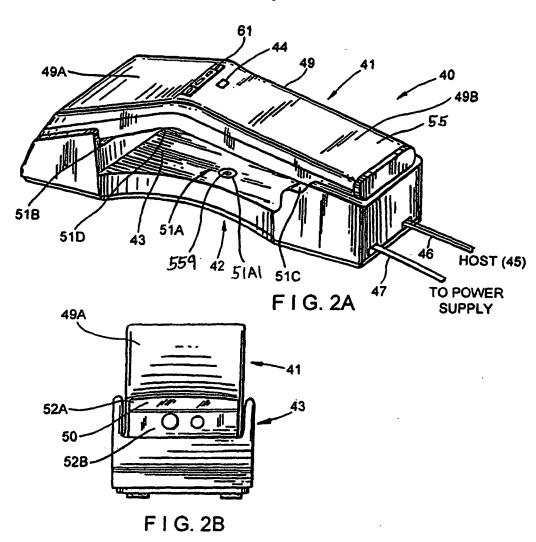
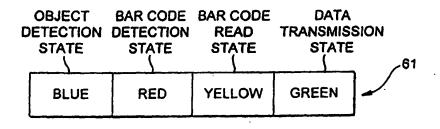


FIG. 1

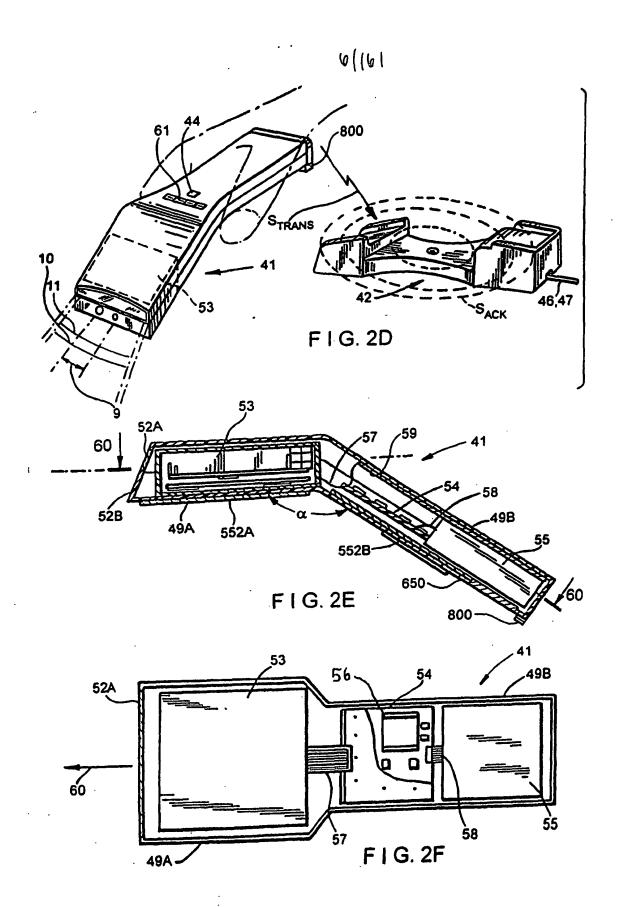


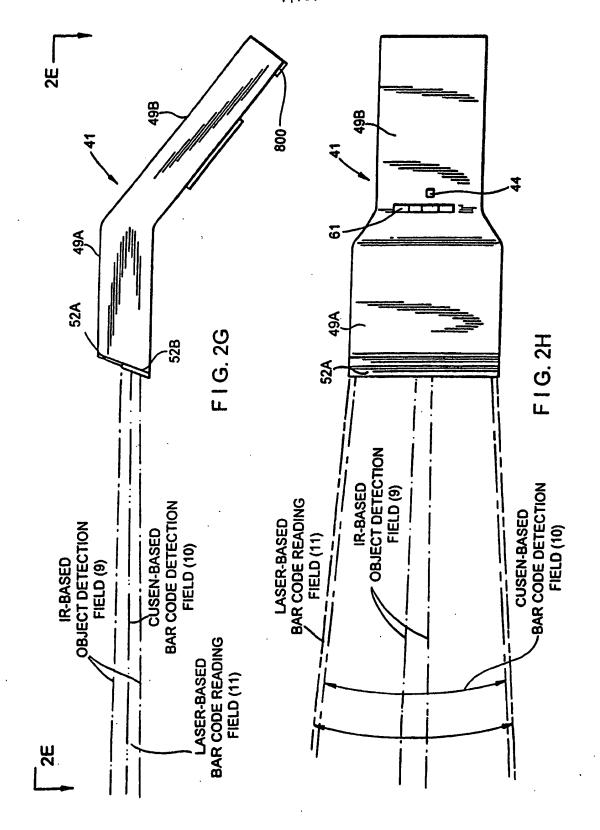


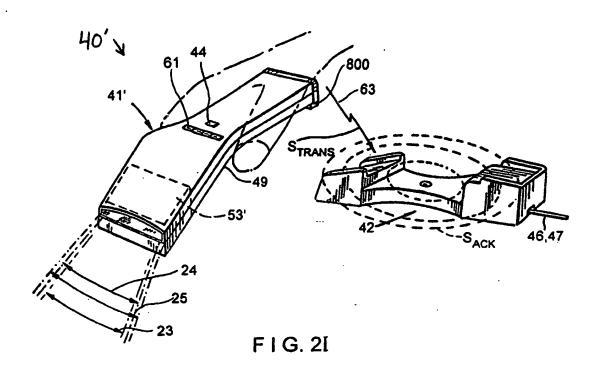


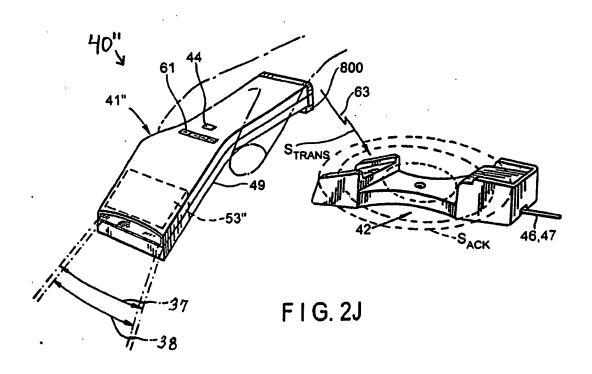


F I G. 2C

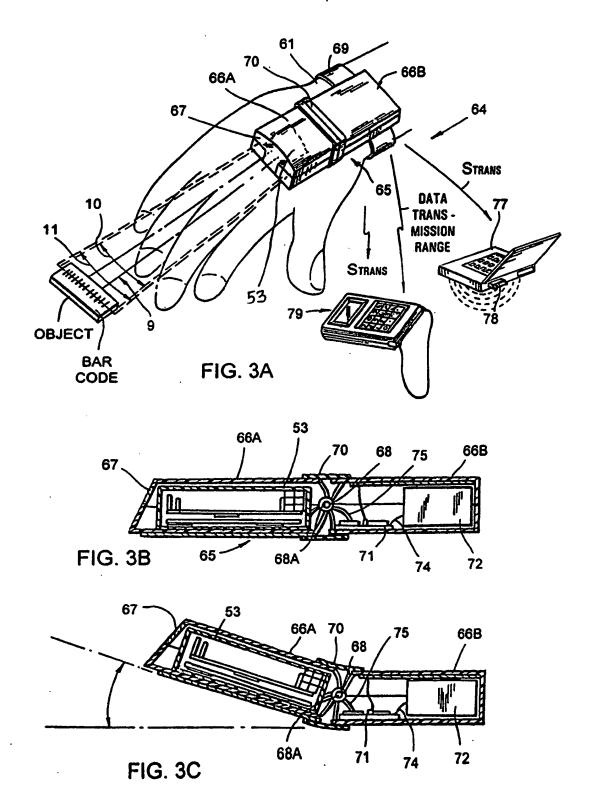


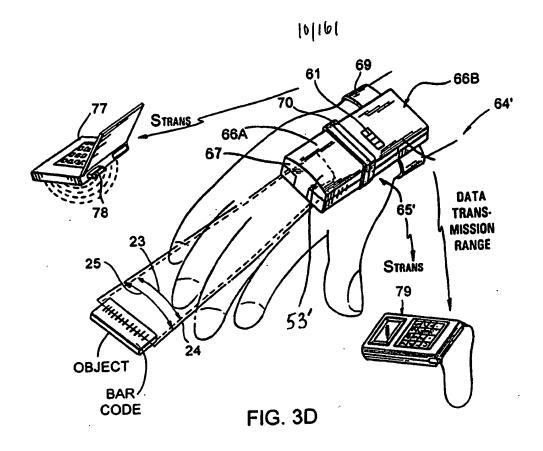


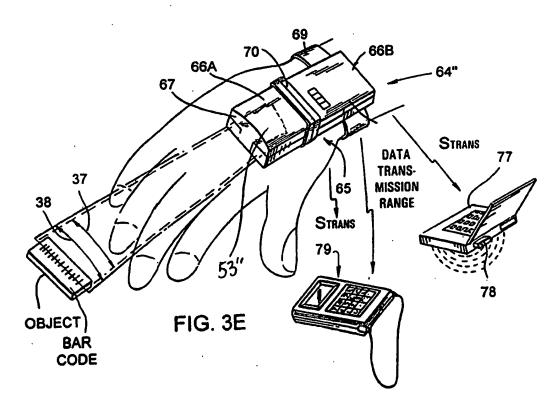


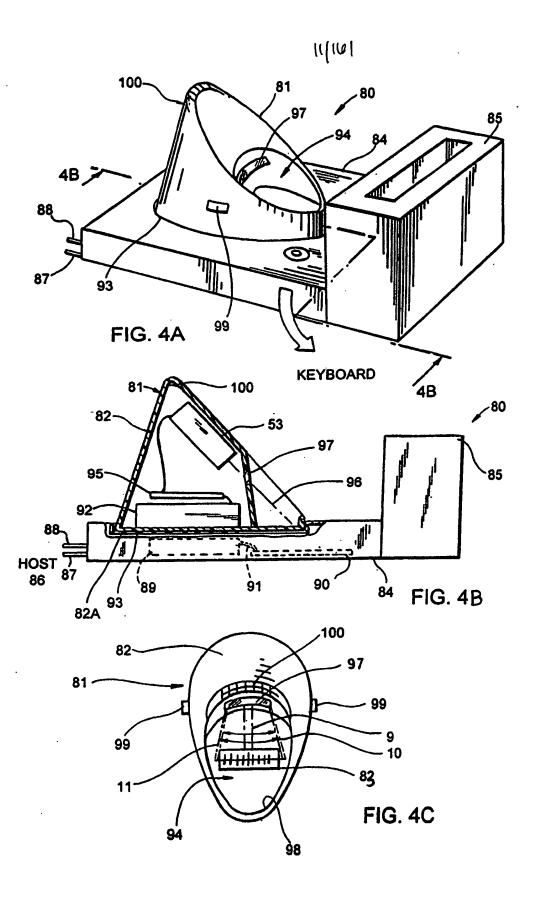


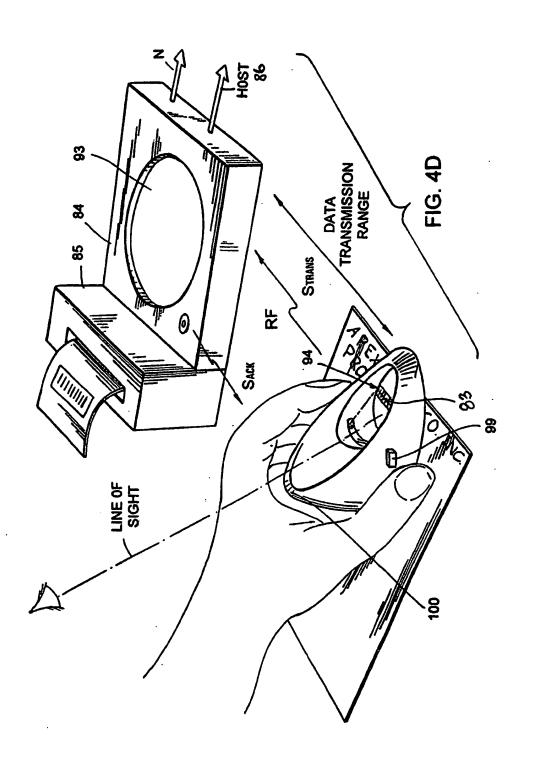
!











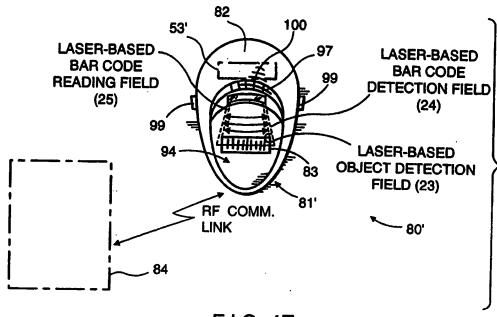
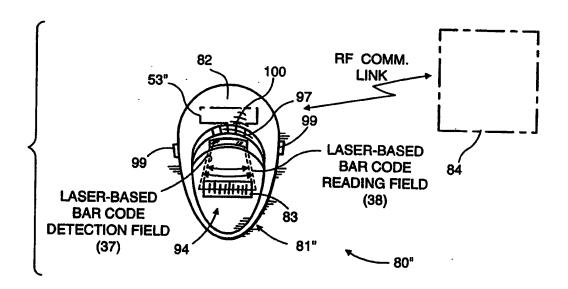
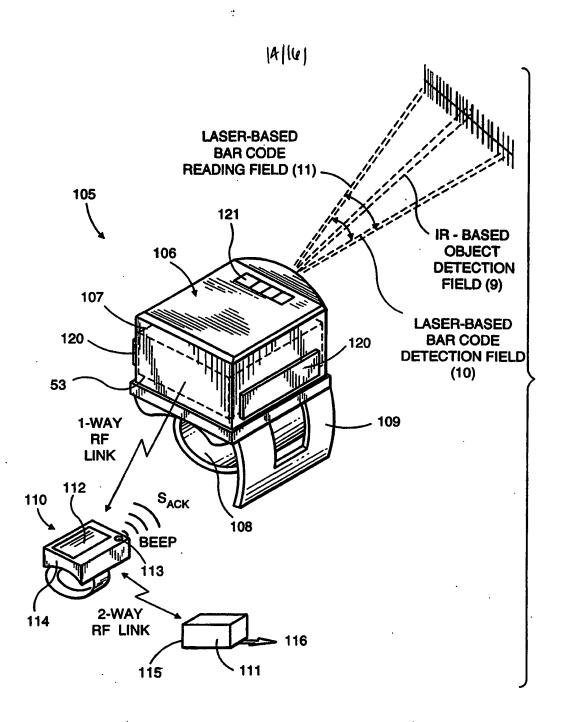


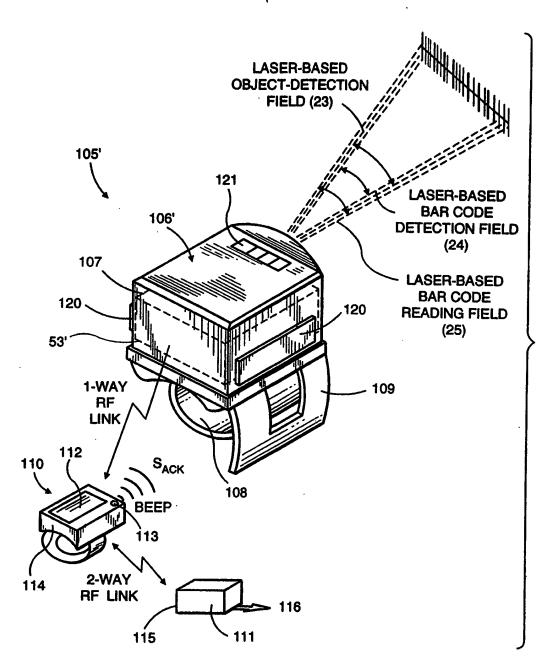
FIG. 4E



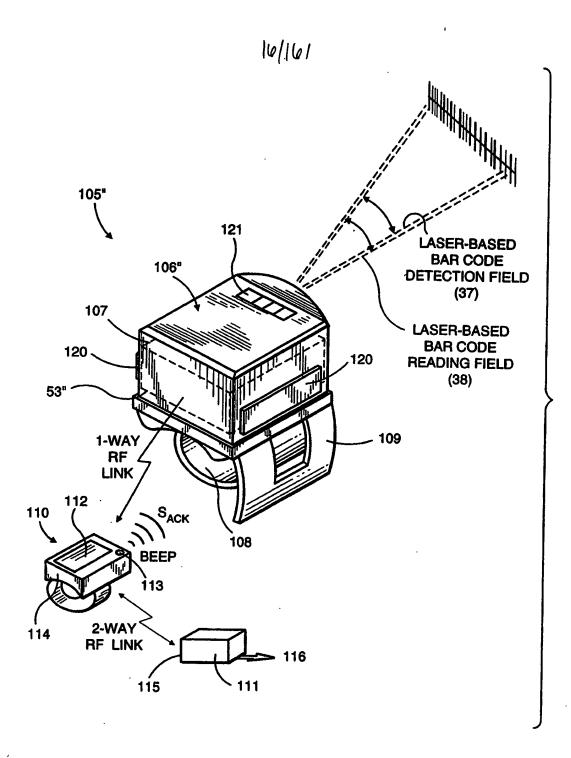
F I G. 4F



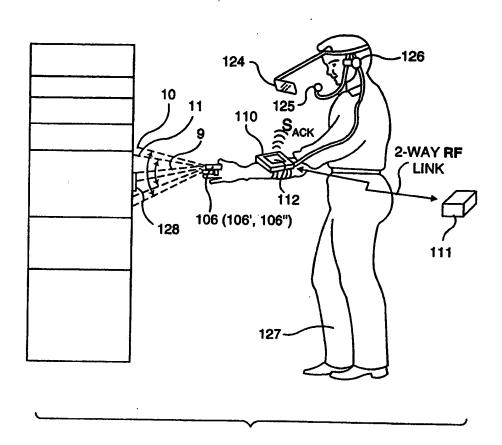
F I G. 5A



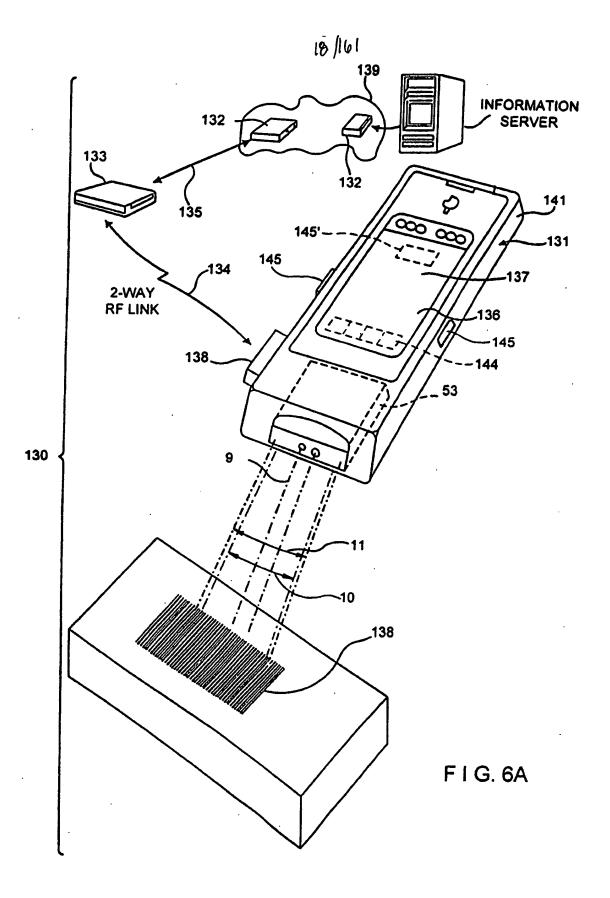
F I G. 5B

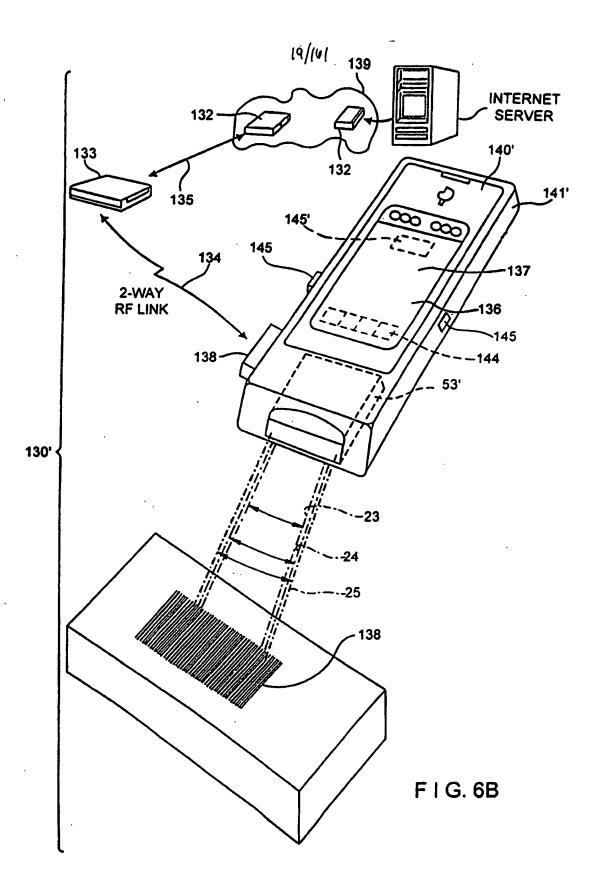


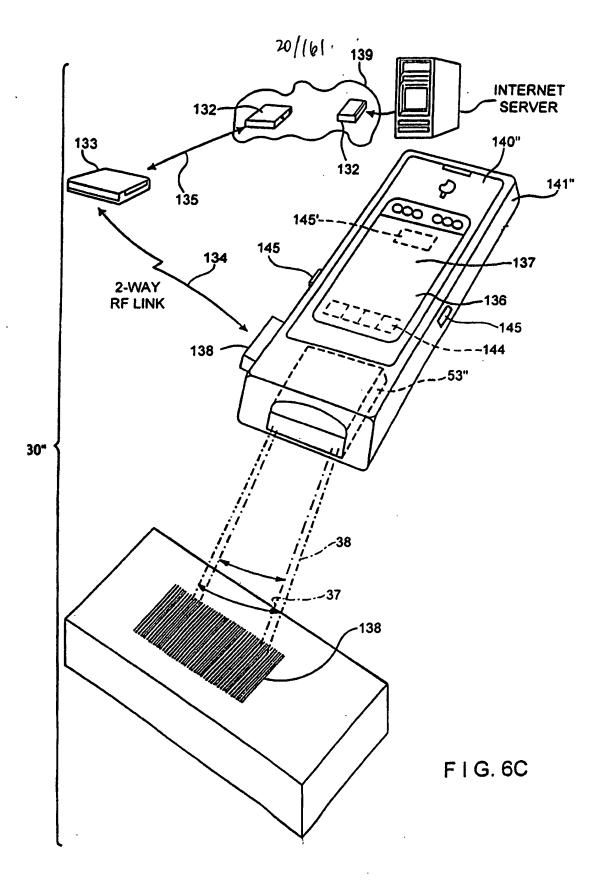
F I G. 5C



F I G. 5D







1

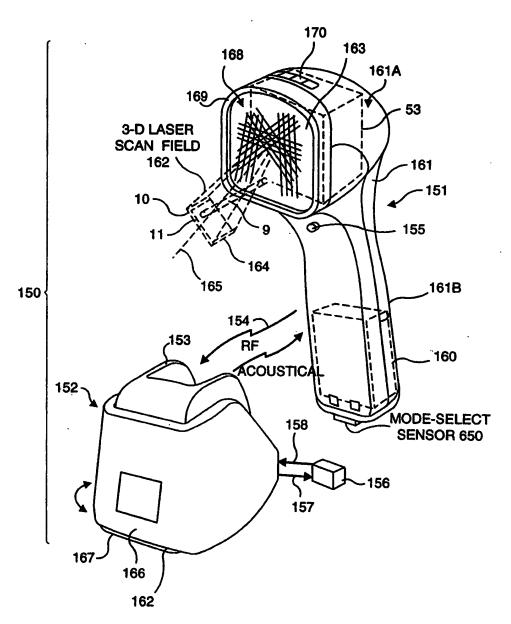
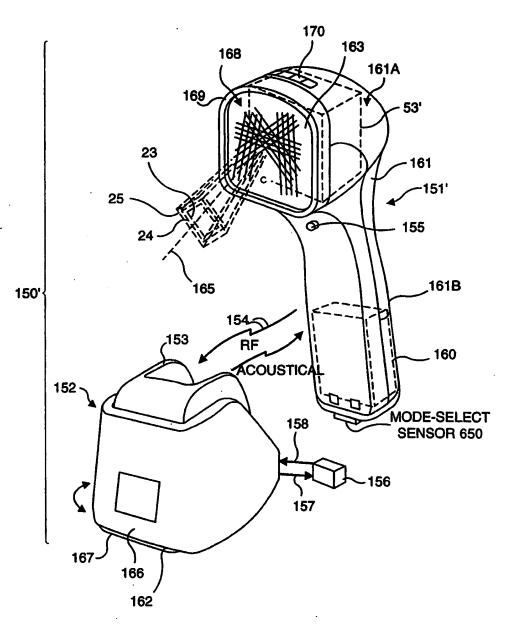
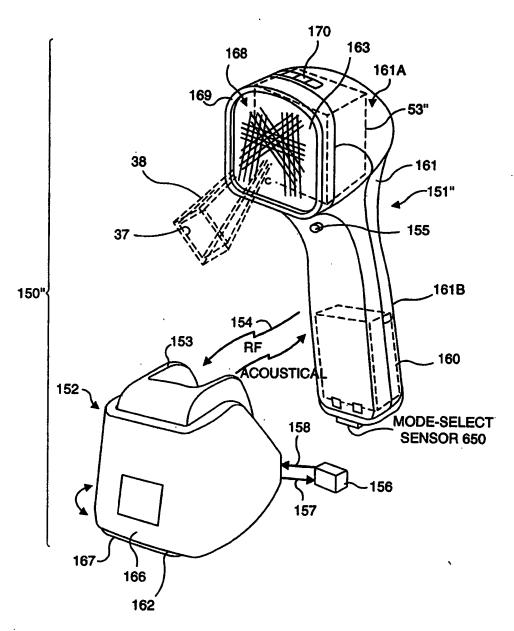


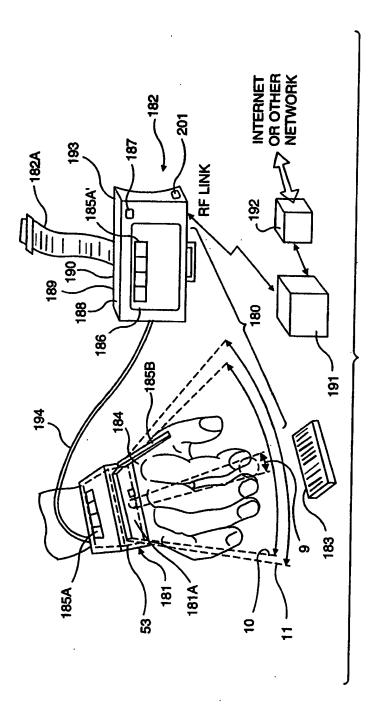
FIG. 7A



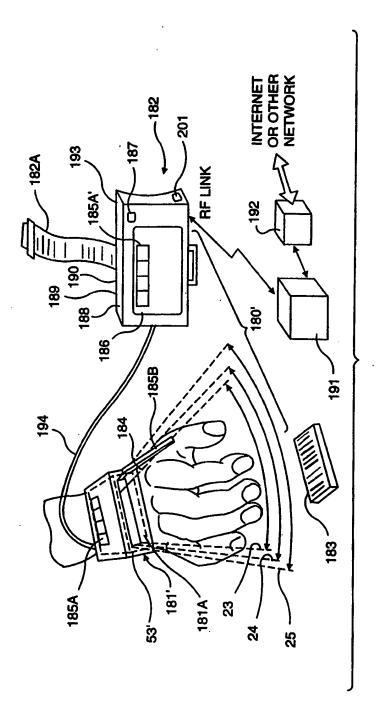
F I G. 7B



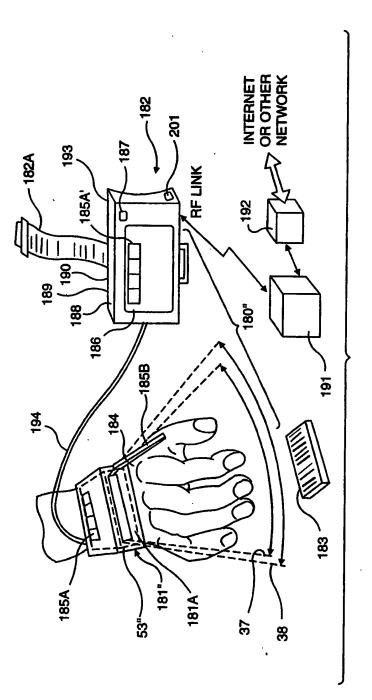
F I G. 7C



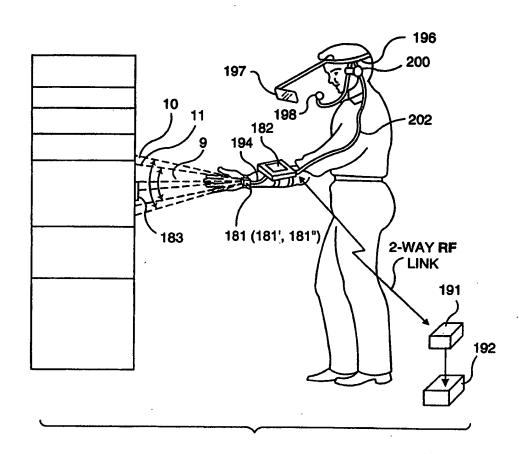
F1G.8A



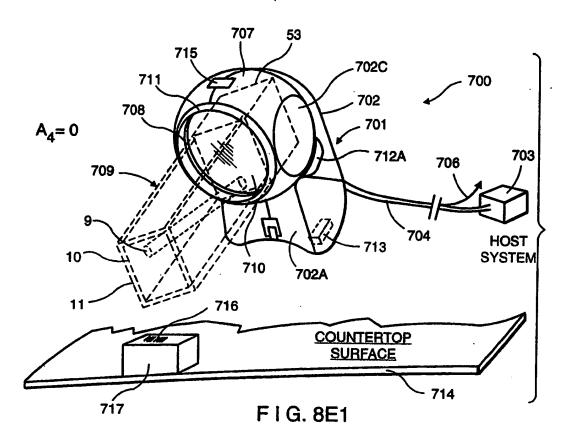
F1G.8B

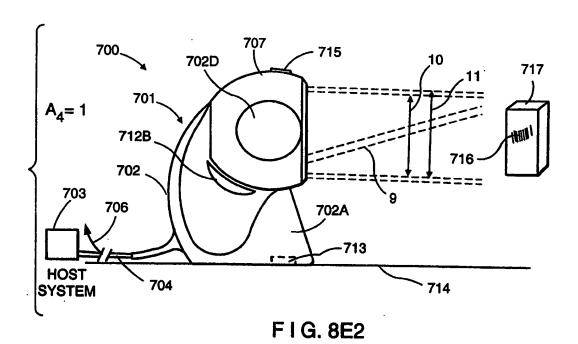


F1G.8C

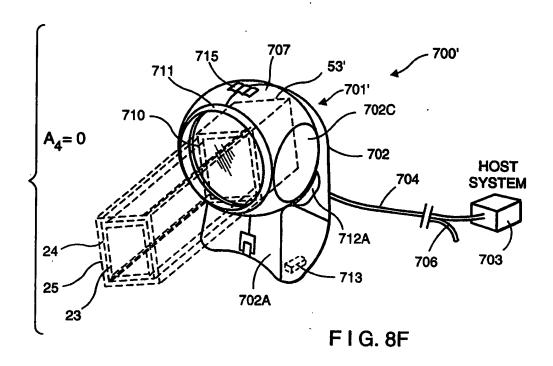


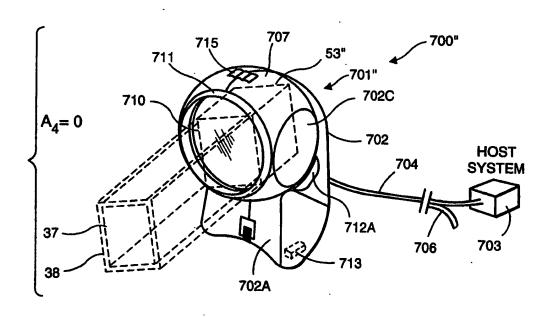
F I G. 8D



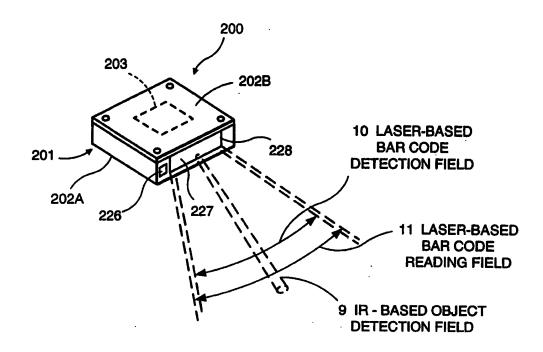


i

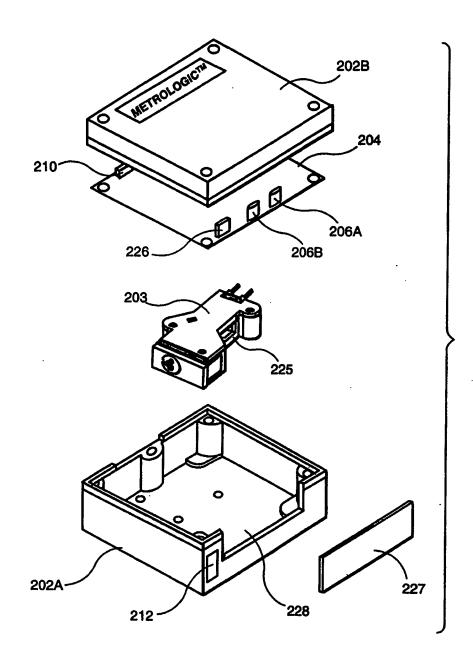




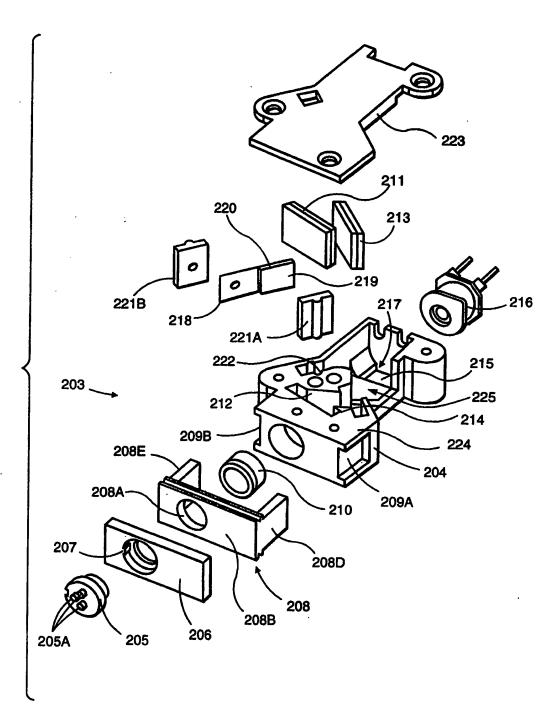
F I G. 8G



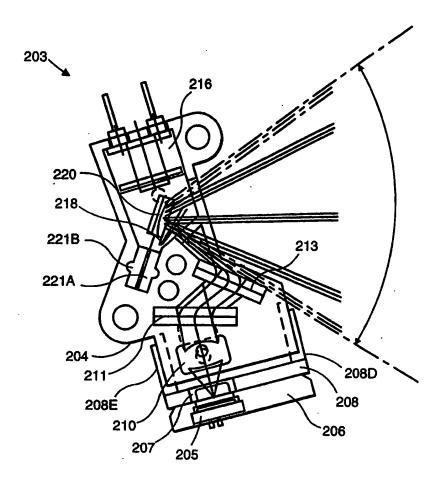
F I G. 9A



F I G. 9B



F I G. 9C



F I G. 9D

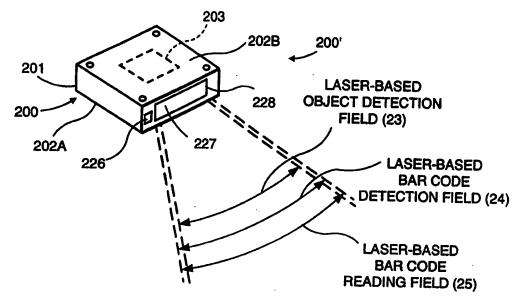
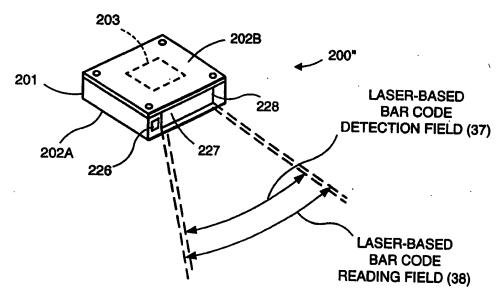
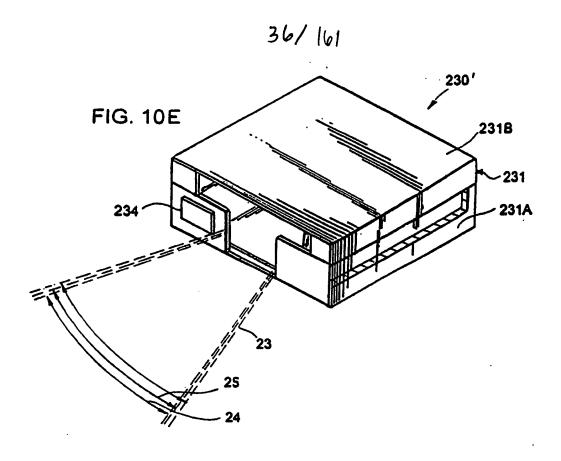
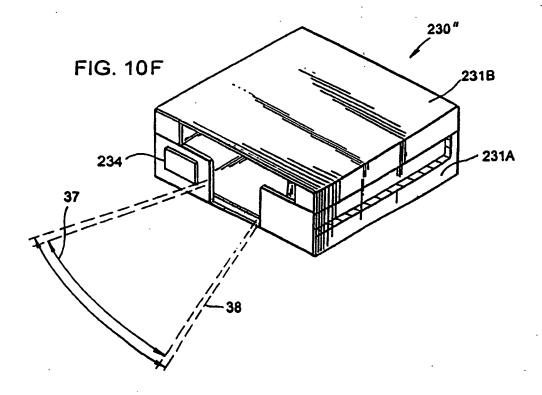


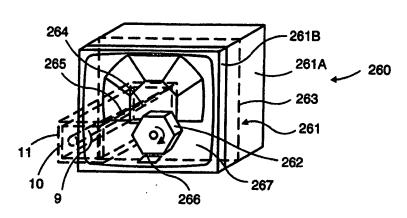
FIG. 9E



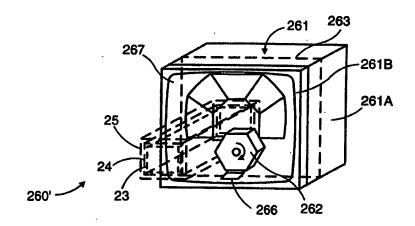
F I G. 9F



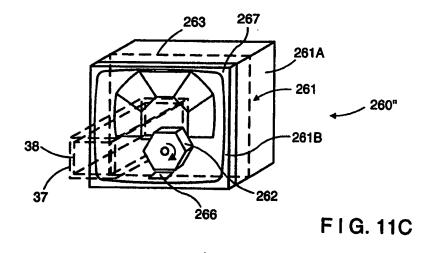


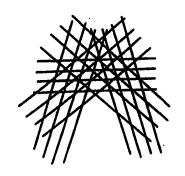


F I G. 11A

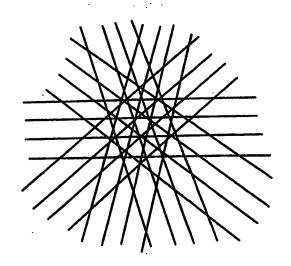


F I G. 11B



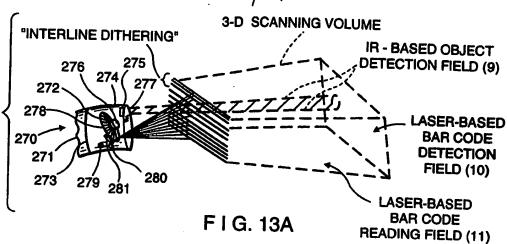


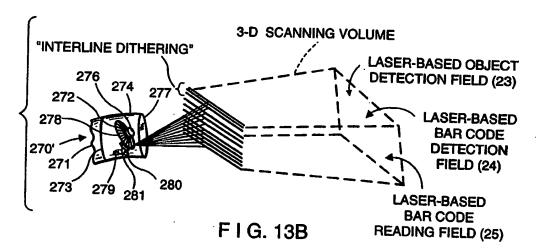
F I G. 12A

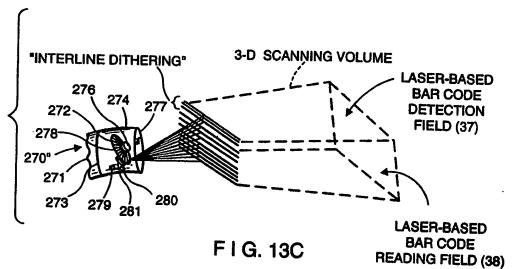


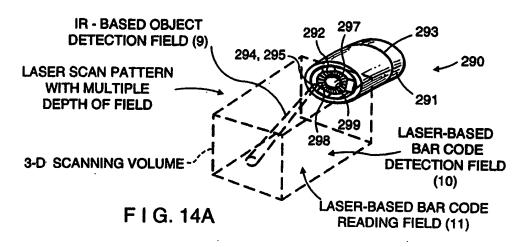
F I G. 12B

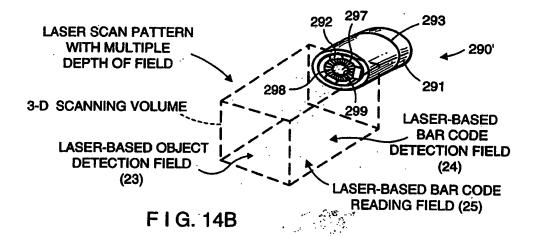


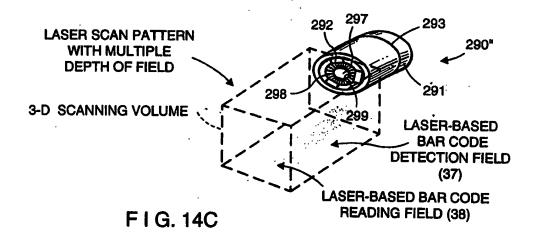




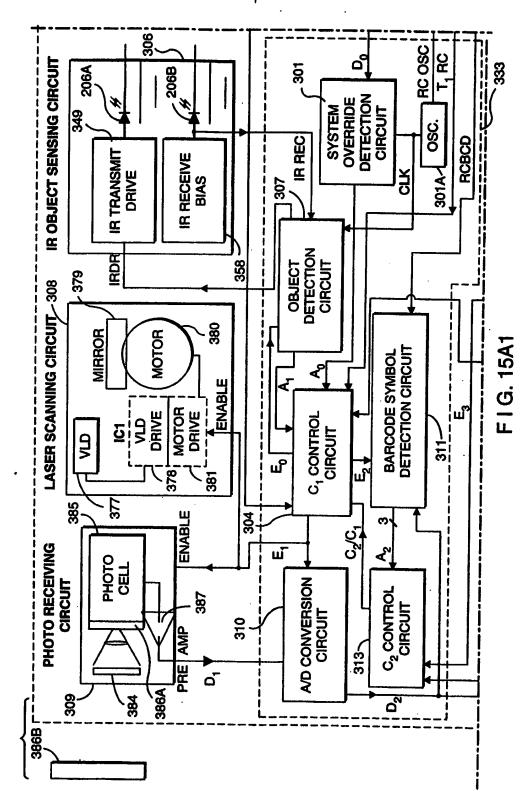


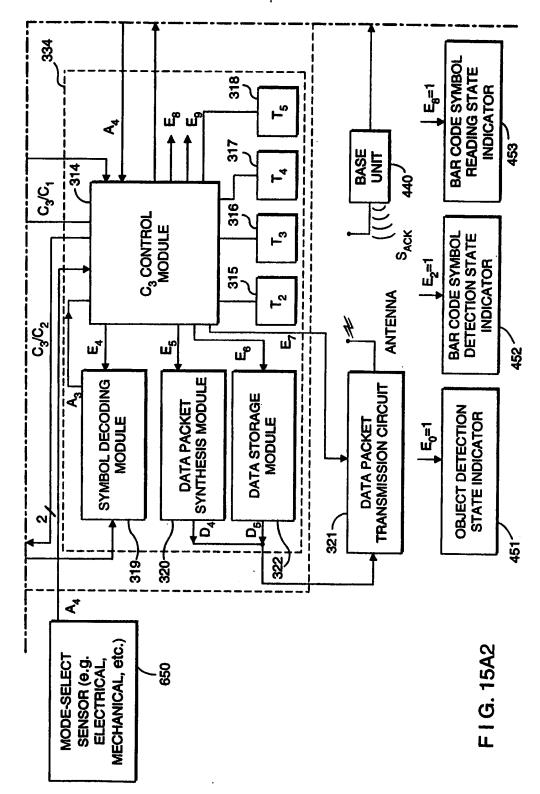






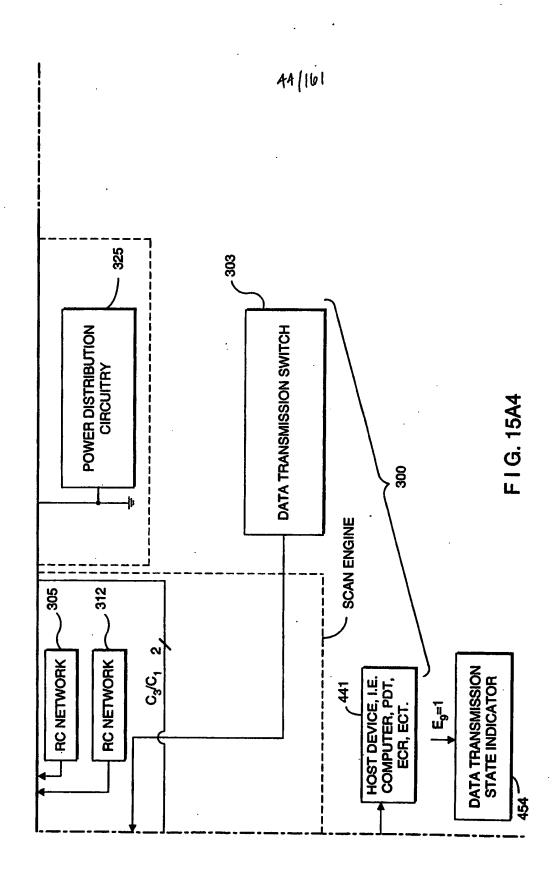
j

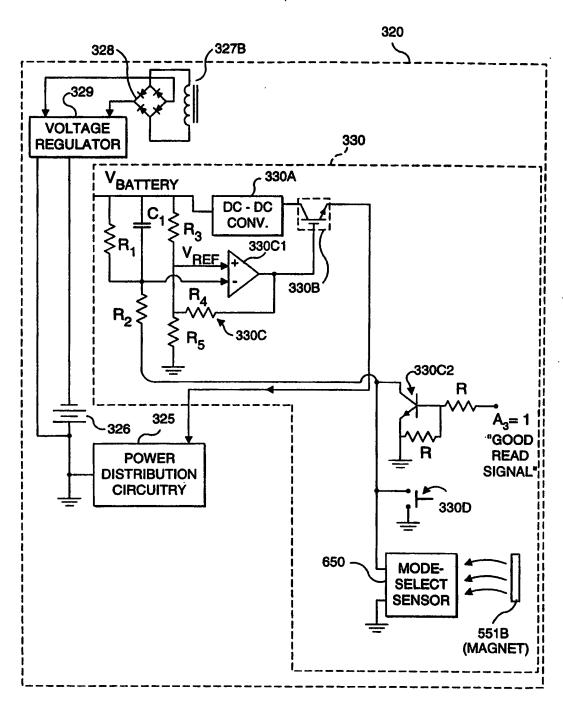




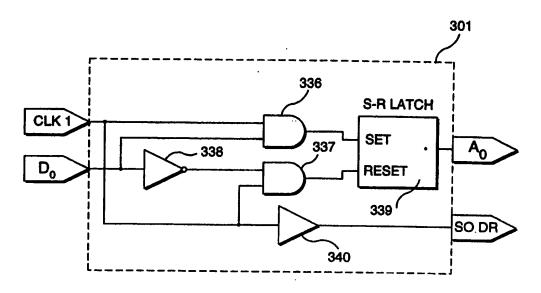
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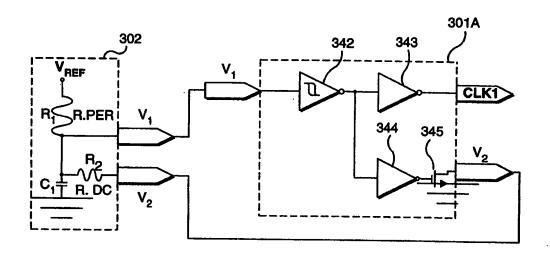




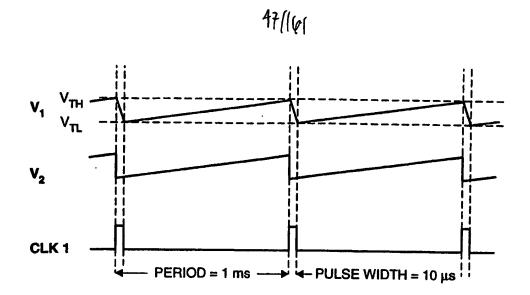
F I G. 15B1



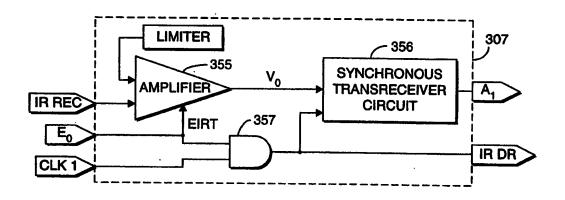
F I G. 15B2



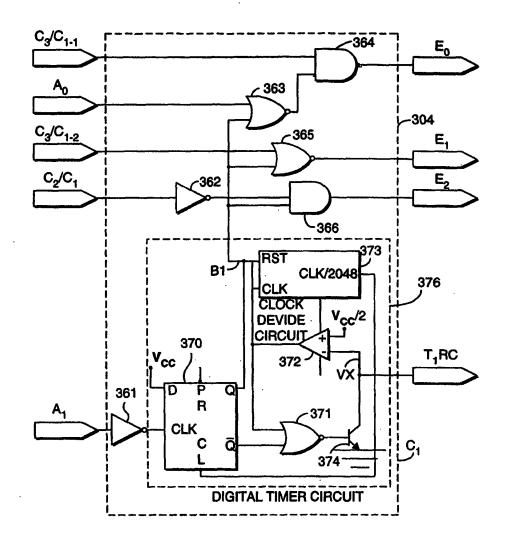
F I G. 15C



F I G. 15D

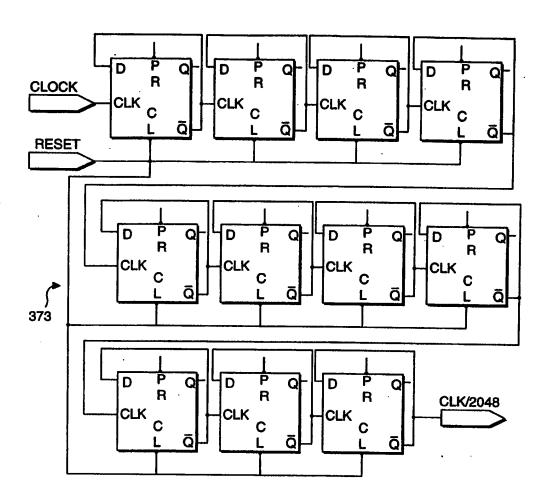


F I G. 15E



F I G. 15F

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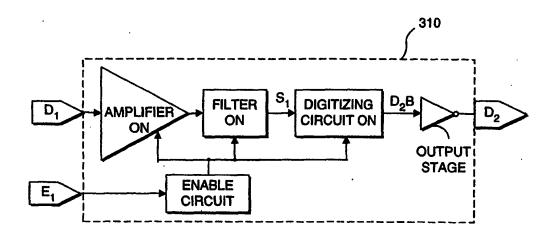


F I G. 15G

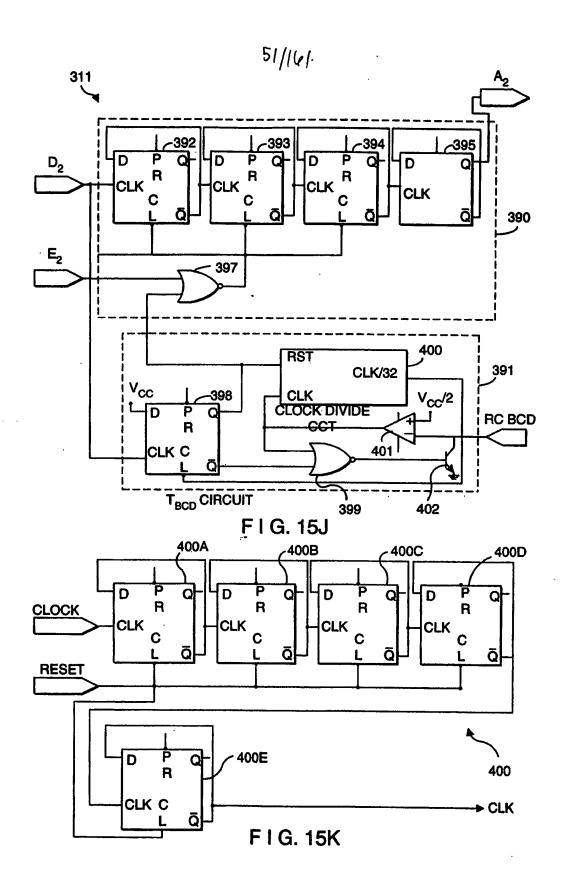
$$E_{0} = (B1 + A_{0})(C_{3}/C_{1-1})$$

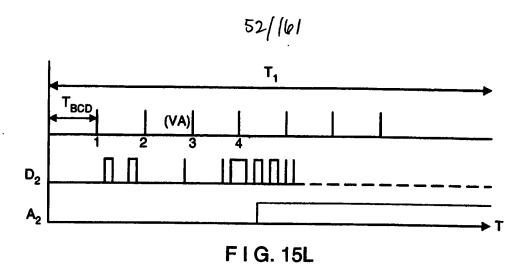
$$E_{1} = (C_{3}/C_{1-2}) + B1$$

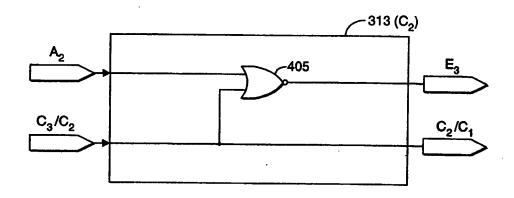
$$E_{2} = (C_{2}/C_{1})(T_{1})$$
FIG. 15H



F I G. 151







F I G. 15M

C <sub>3</sub> /C <sub>2</sub>	A <sub>2</sub>	E <sub>3</sub>	C <sub>2</sub> /C <sub>1</sub>
0	0	0	0
0	1	1	0
· <b>1</b>	X	1	1

X: DON'T CARE (I.E.  $C_3$  /  $C_2$  OVERRIDES  $A_2$ )

F I G. 15N

	320 _32	1 _322	323	324	325	326
START OF PACKET FIELD	TRANSMI TTER ID NUMBER FIELD	PACKET GROUP NUMBER FIELD	DATA PACKET NUMBER FIELD	SYMBOL CHARAC TER DATA FIELD	ERROR CODE CORREC TION FIELD	END OF PACKET FIELD

FIG. 150

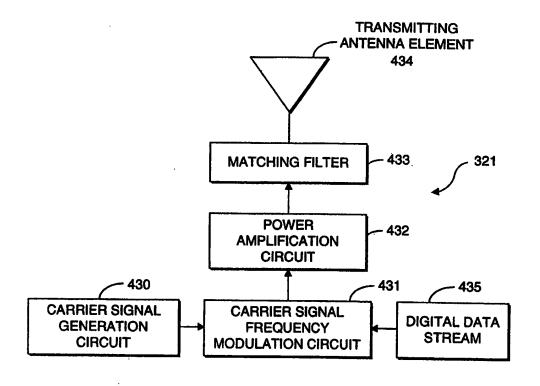
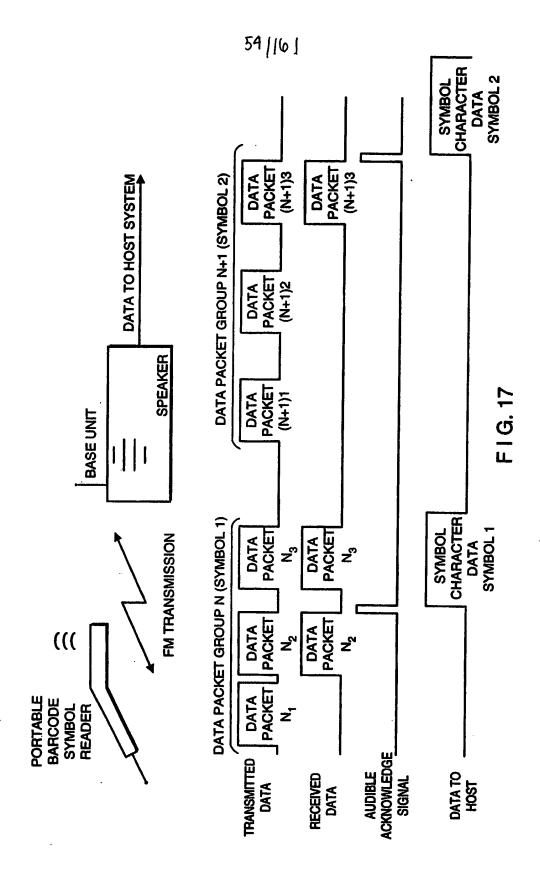
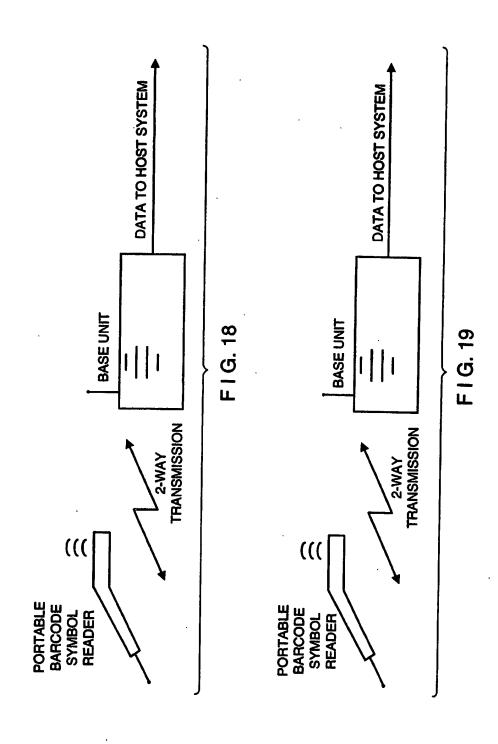


FIG. 16



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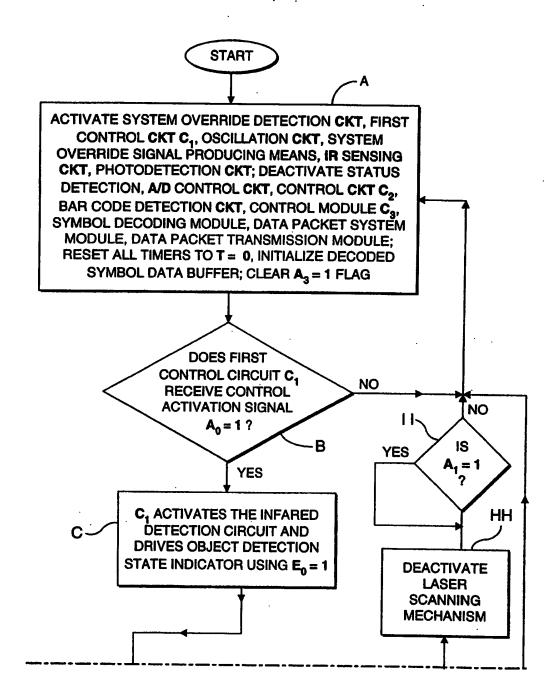
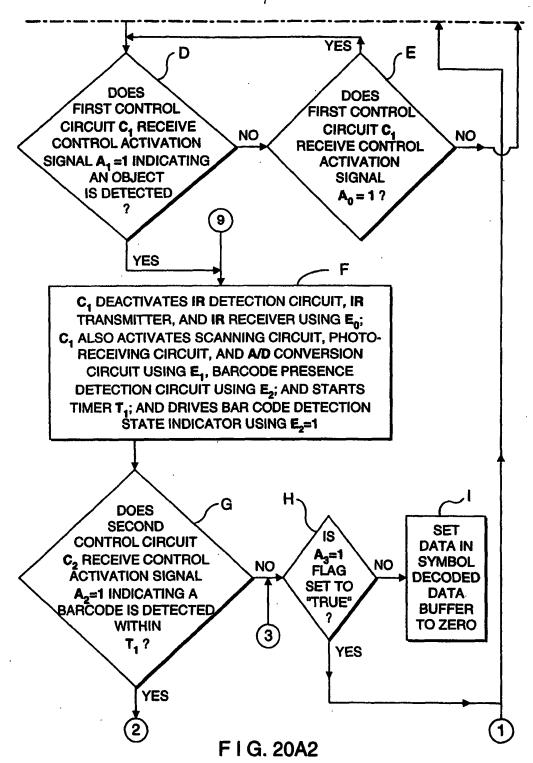
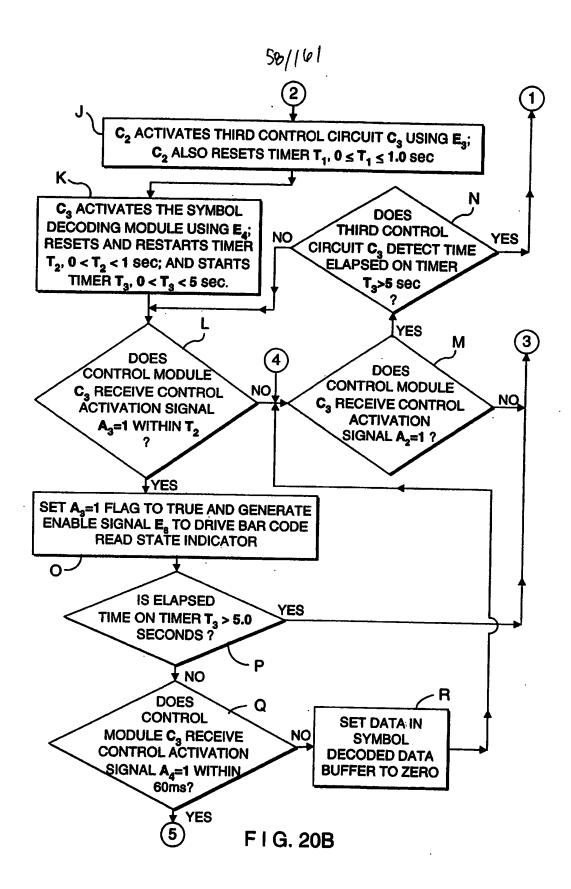
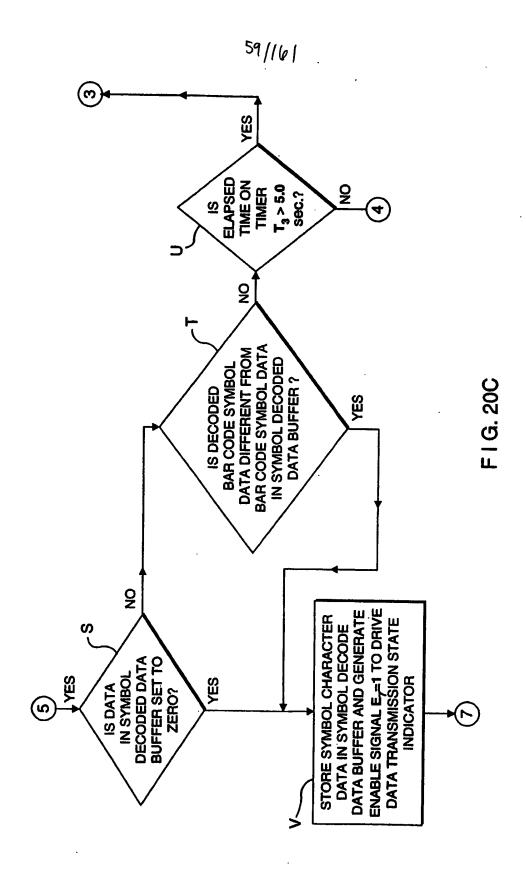


FIG. 20A1







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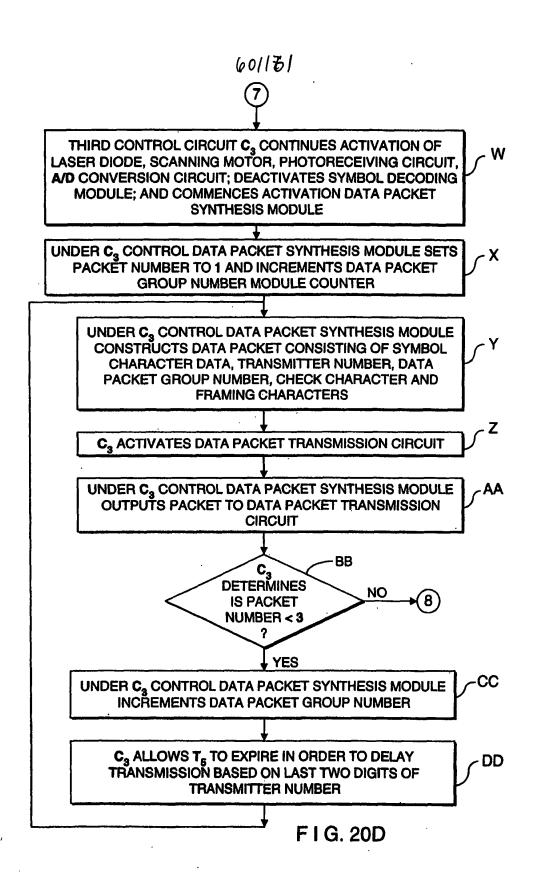


FIG. 20E

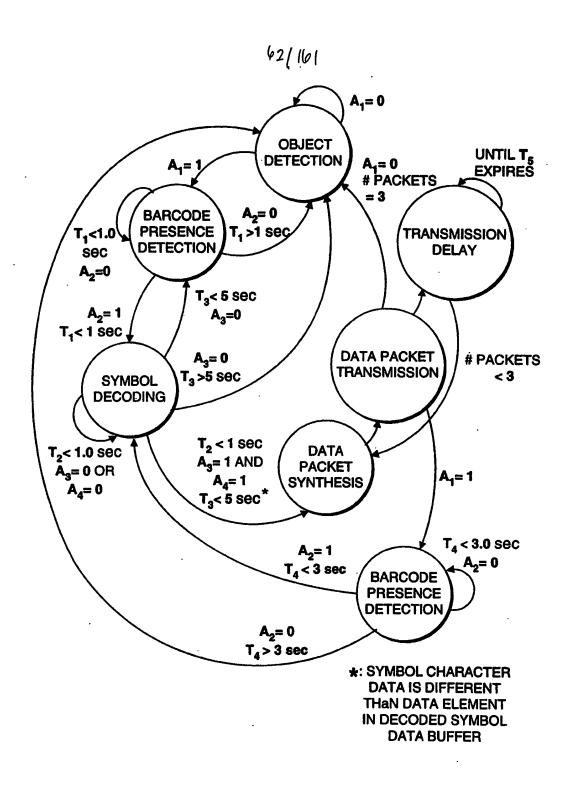
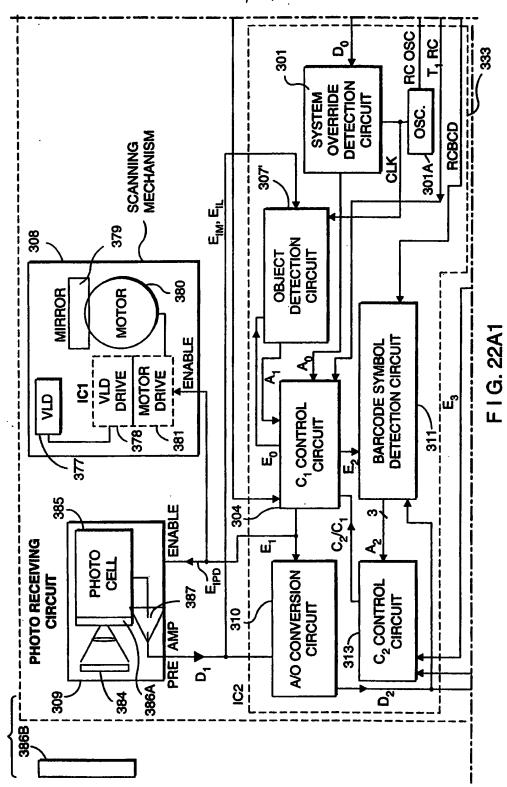
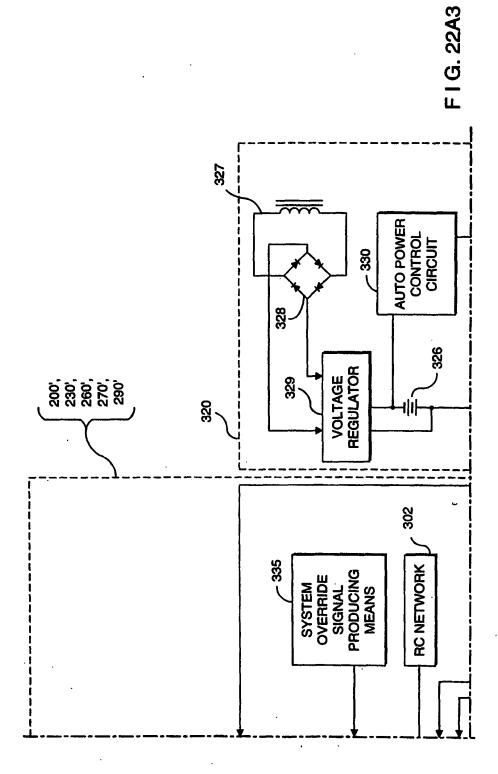
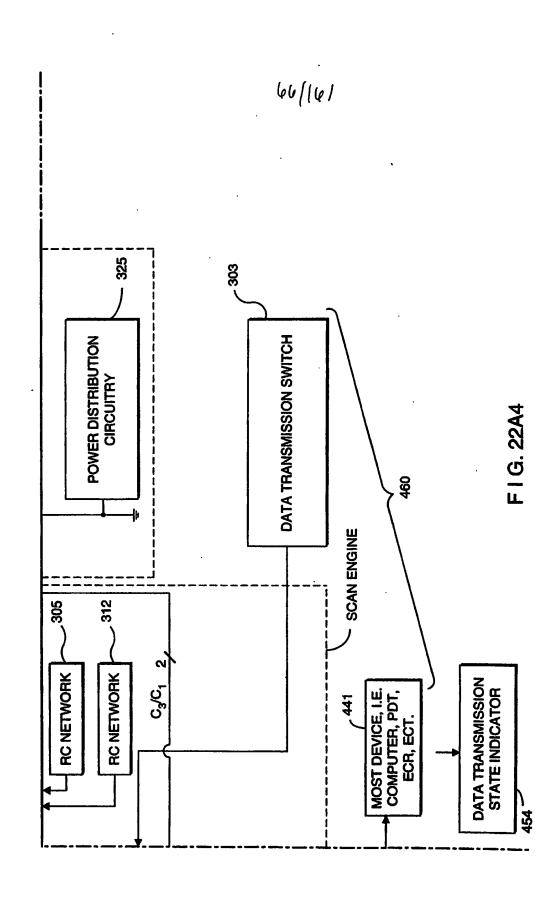
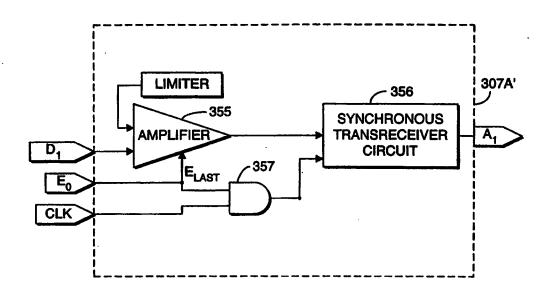


FIG. 21

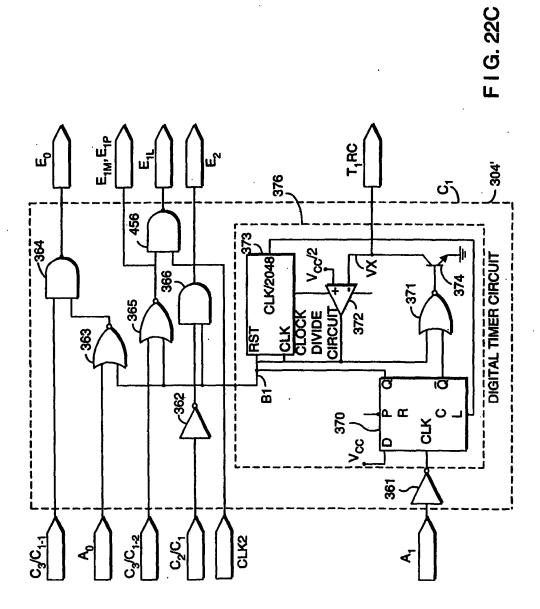


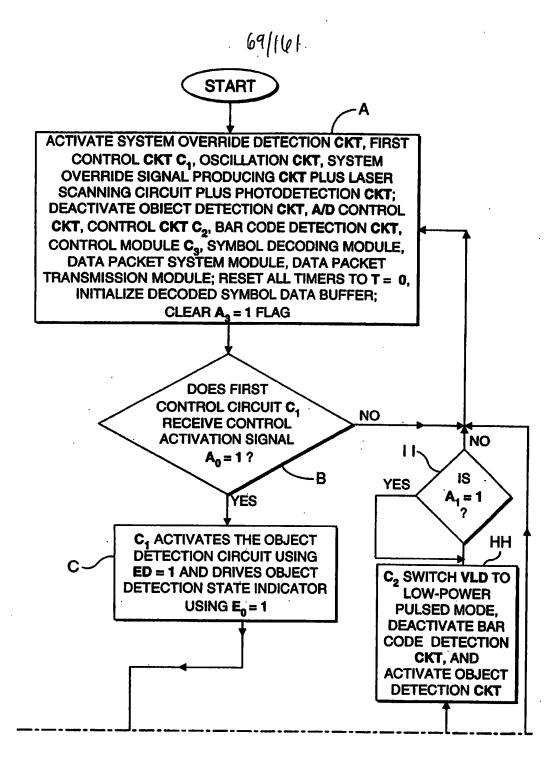




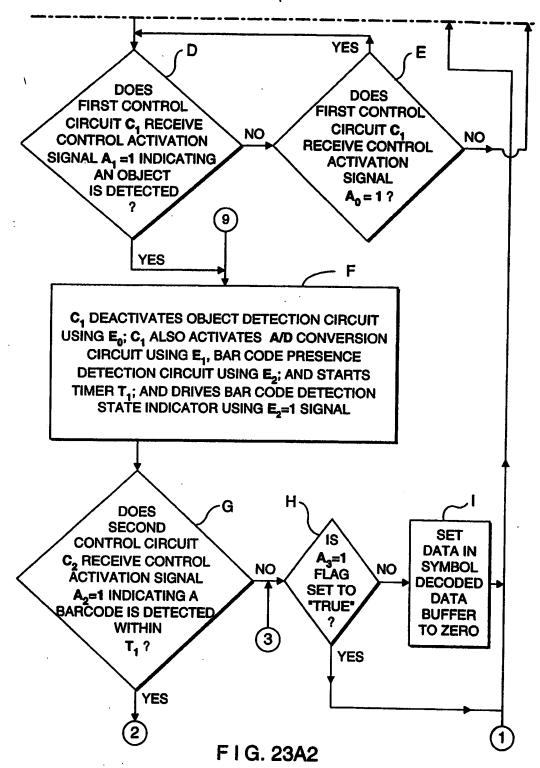


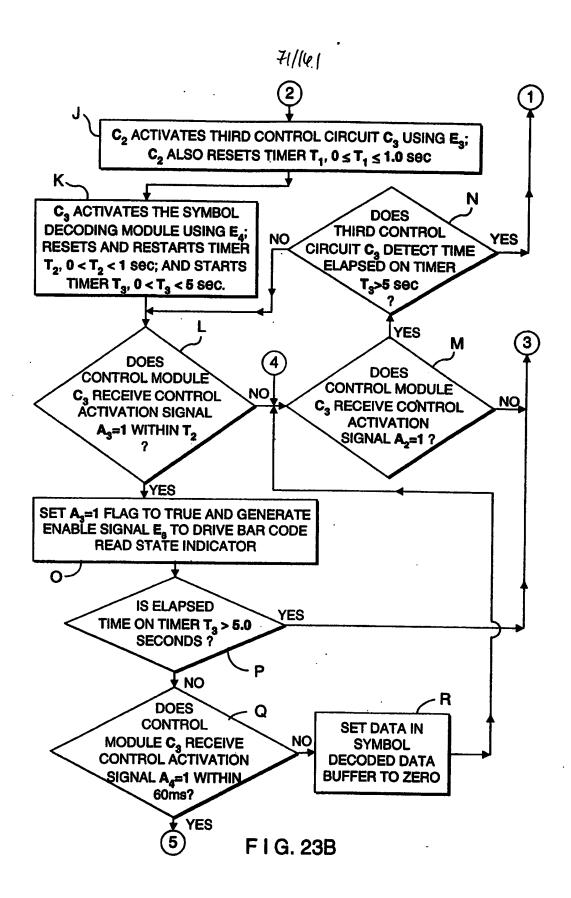
F I G. 22B

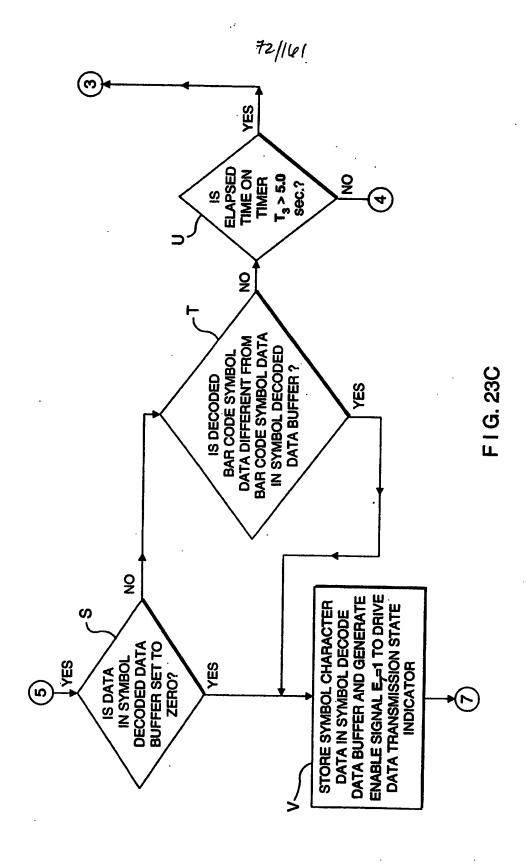


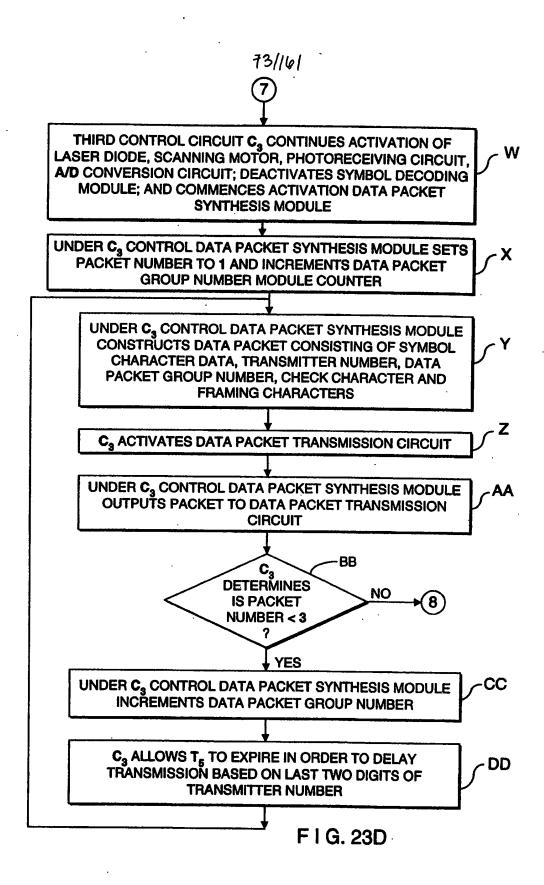


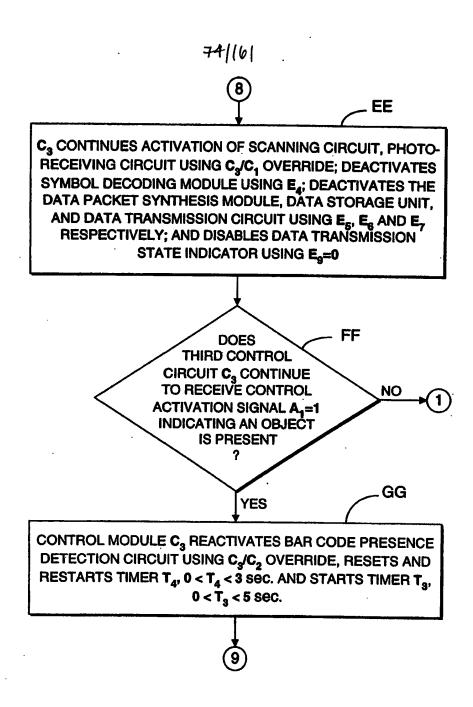
F I G. 23A1











F I G. 23E

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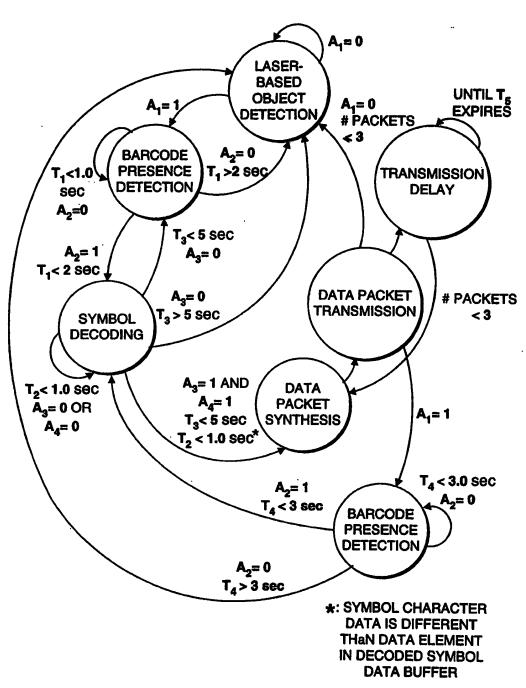
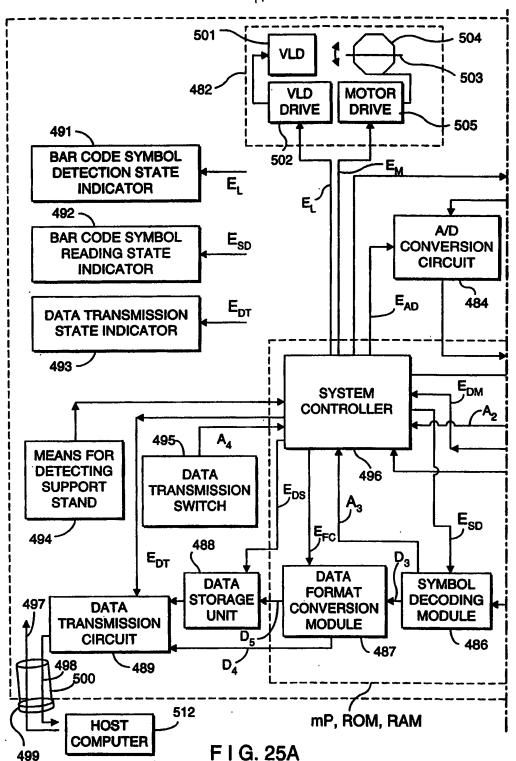
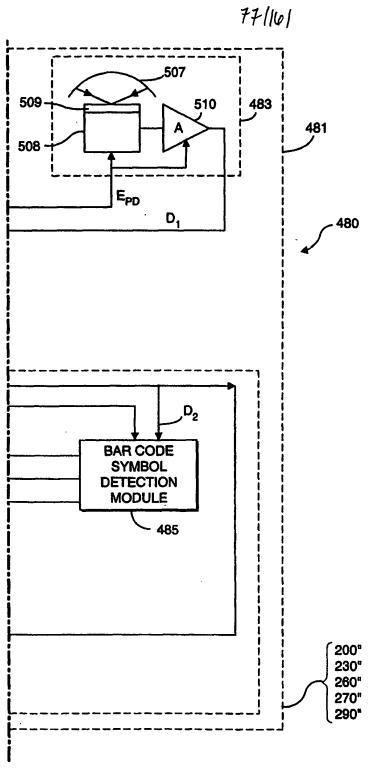
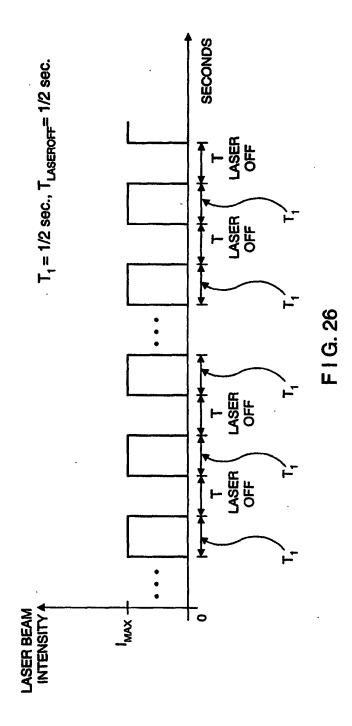


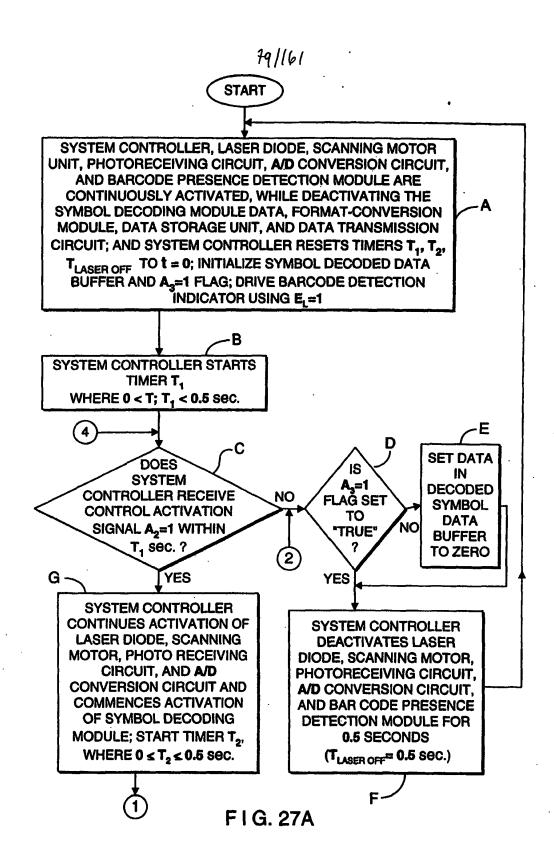
FIG. 24





F I G. 25B





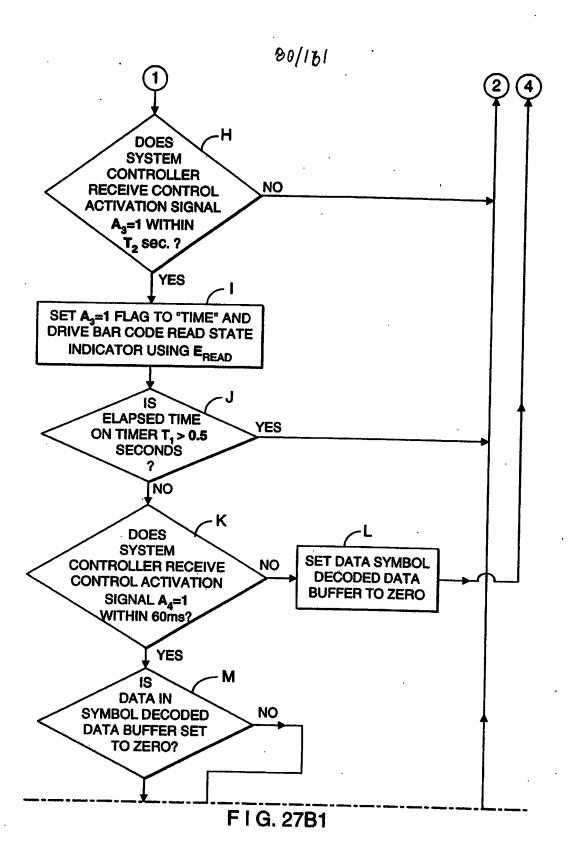


FIG. 27B2

SYSTEM CONTROLLER CONTINUES ACTIVATION OF LASER DIODE, SCANNING MOTOR, PHOTORECEIVING CIRCUIT, A/D CONVERSION CIRCUIT; DEACTIVATES SYMBOL , Q DECODING MODULE; AND COMMENCES ACTIVATION OF DATA FORMAT CONVERSION MODULE AND DATA TRANSMISSION MODULE (AND/OR DATA STORAGE MODULE); DRIVE DATA TRANSMISSION STATE INDICATOR WITH EDT=1 TRANSMIT SYMBOL CHARACTER DATA TO HOST DEVICE (E.G. COMPUTER, CASH REGISTER, ETC.) OR OTHER STORAGE (PROCESSING DEVICE); DRIVE DATA /R TRANSMISSION STATE INDICATOR USING  $\mathbf{E}_{\mathrm{DT}}$ =1, AND DISABLE BAR CODE READ INDICATOR USING E<sub>SD</sub>=0 SYSTEM CONTROLLER DEACTIVATES DATA FORMAT CONVERSION MODULE, DATA TRANSMISSION MODULE (AND **DATA STORAGE MODULE)** 

FIG. 27C

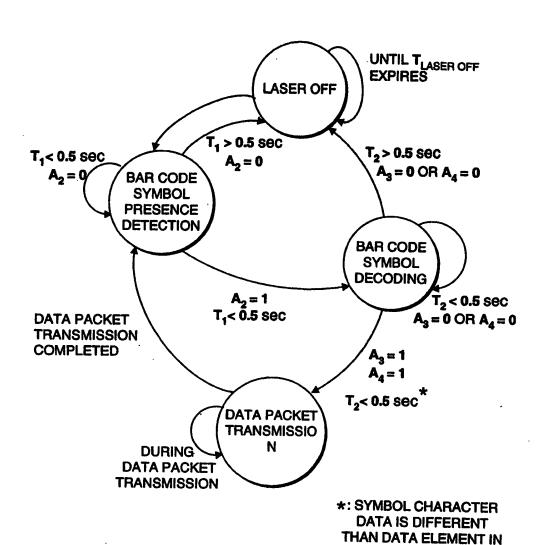
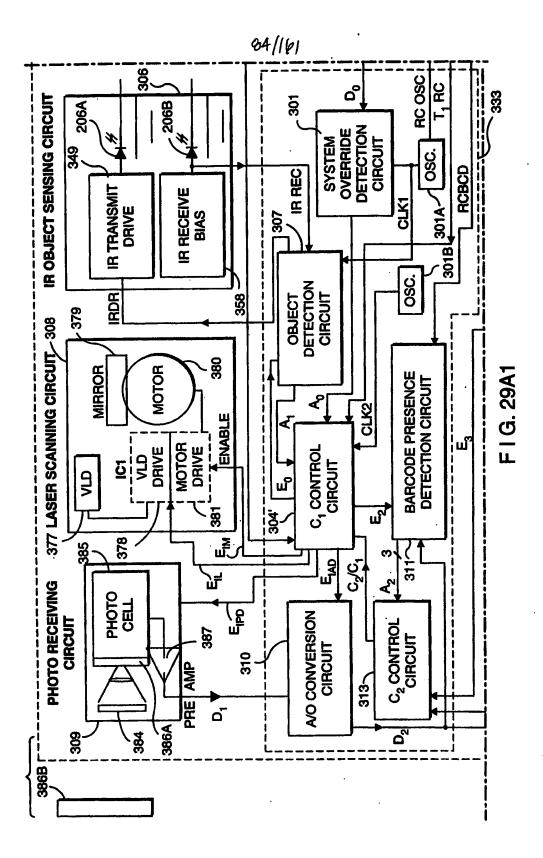
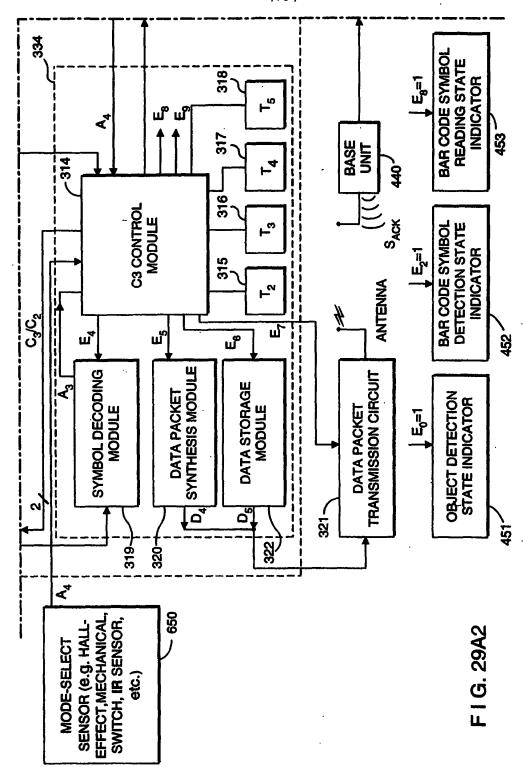


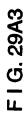
FIG. 28

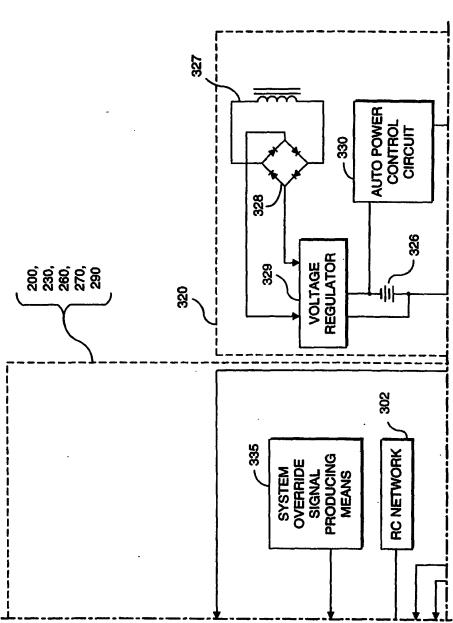
DECODED SYMBOL DATA BUFFER

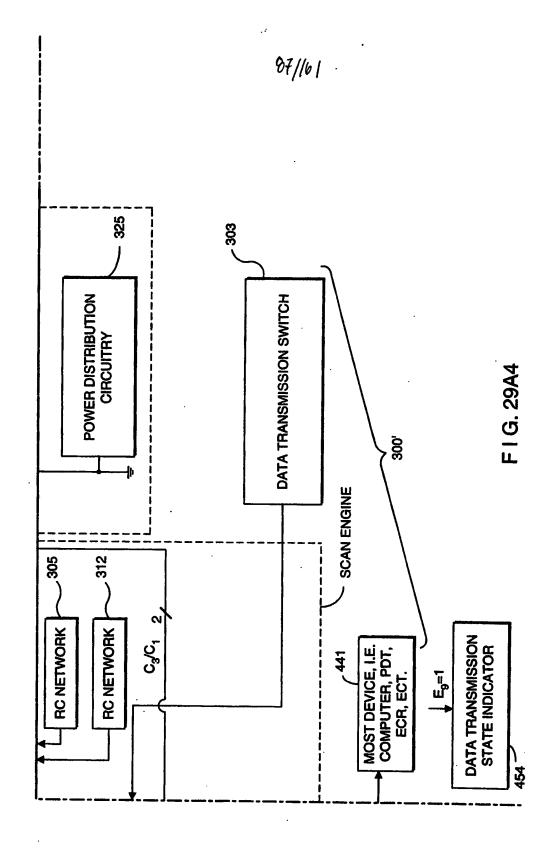


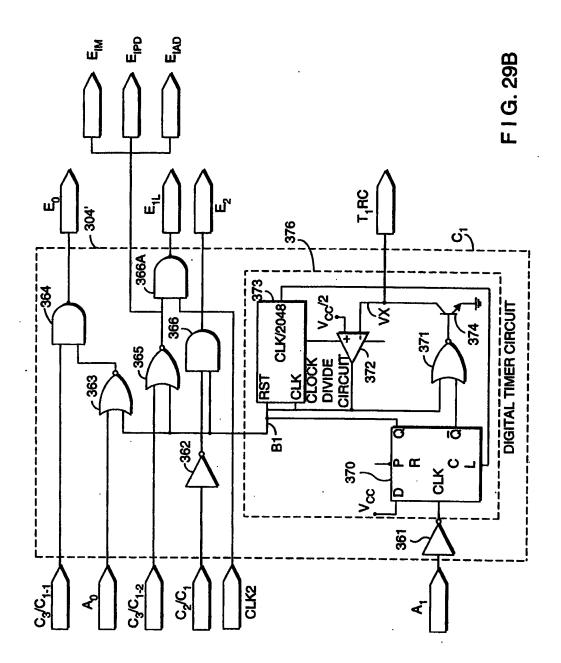


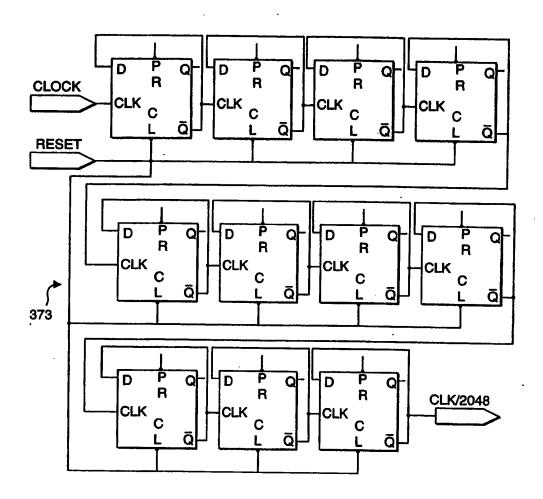
\











F I G. 29C

$$\begin{cases}
E_0 = \overline{(B1 + A_0) (C_3 / C_{1-1})} \\
E_{IM} = E_{IPD} = E_{IAD} = \overline{(C_3 / C_{1-2}) + B1} \\
E_L = \overline{(C_3 / C_{1-1}) + B1} [B2] \\
E_2 = \overline{(C_2 / C_1) (B1)}
\end{cases}$$

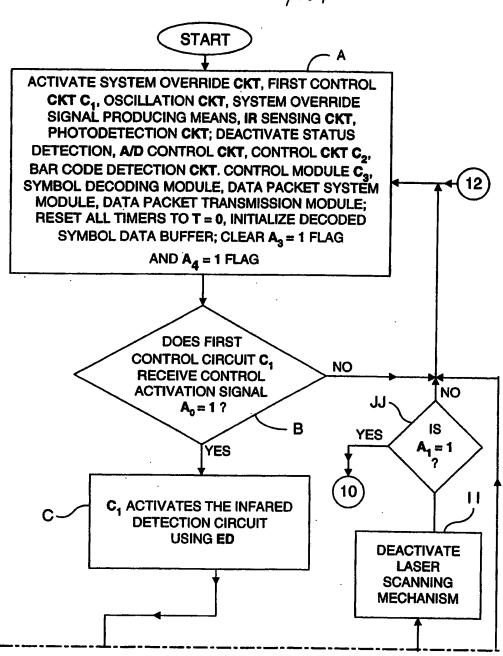
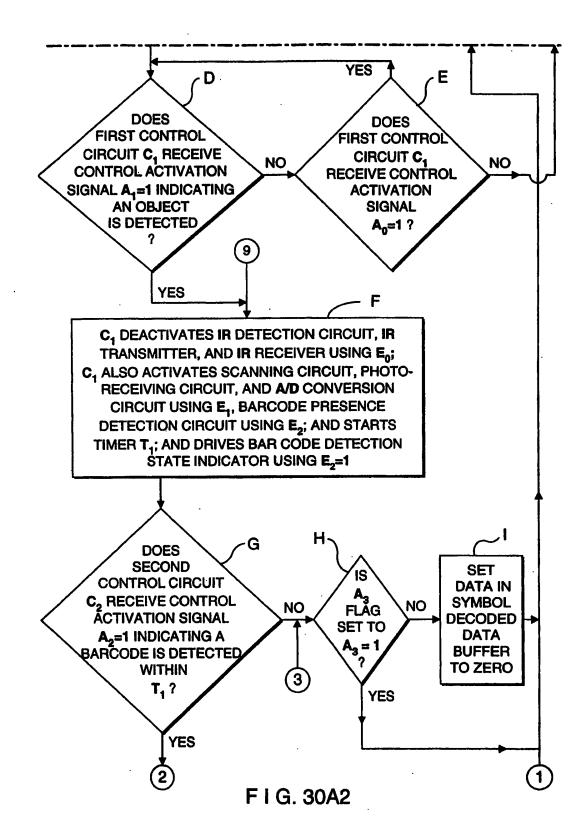
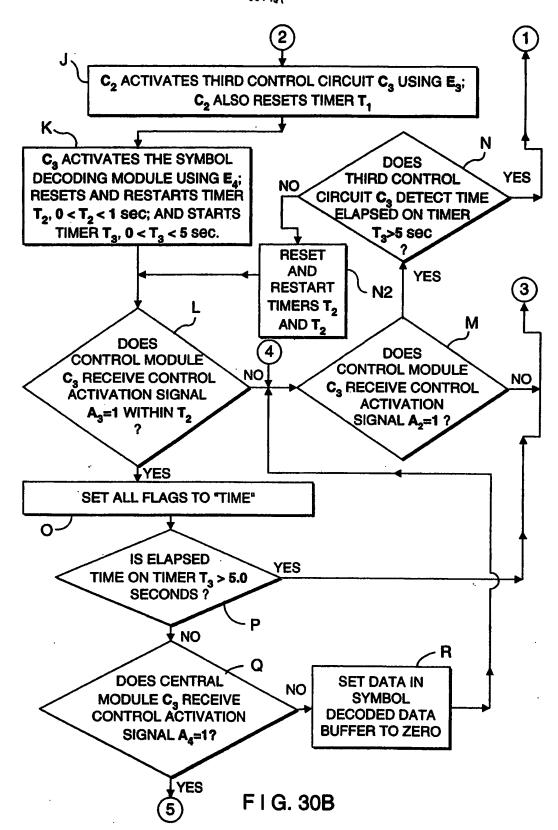
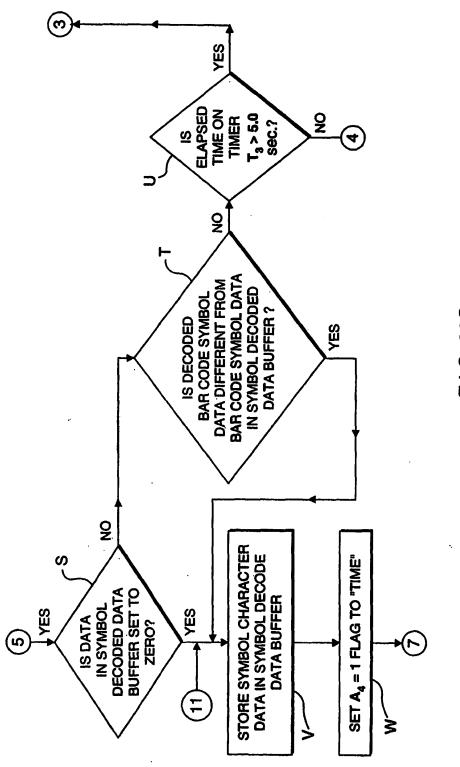


FIG. 30A1







F1G.30C

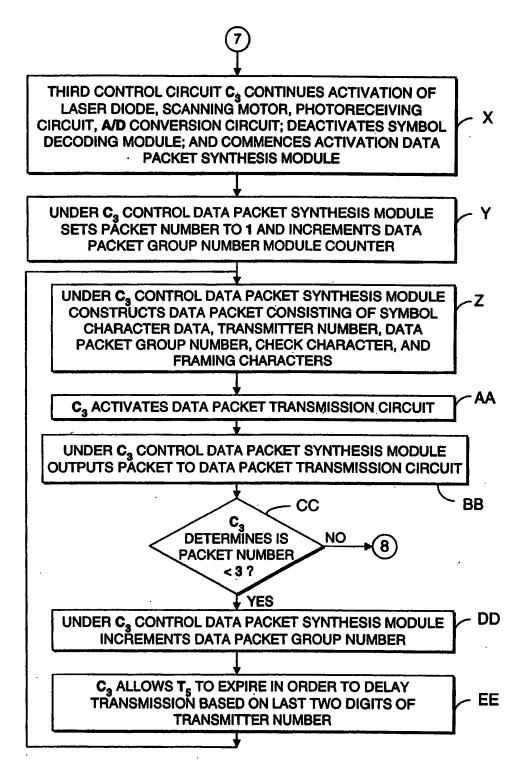


FIG. 30D

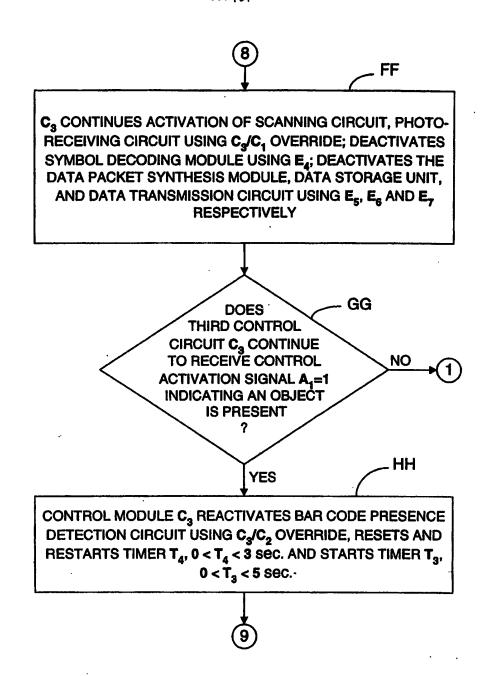
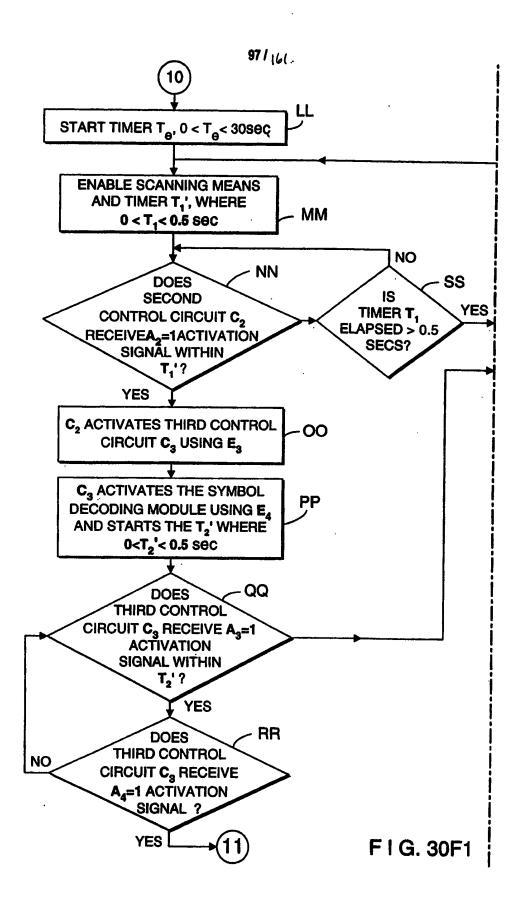
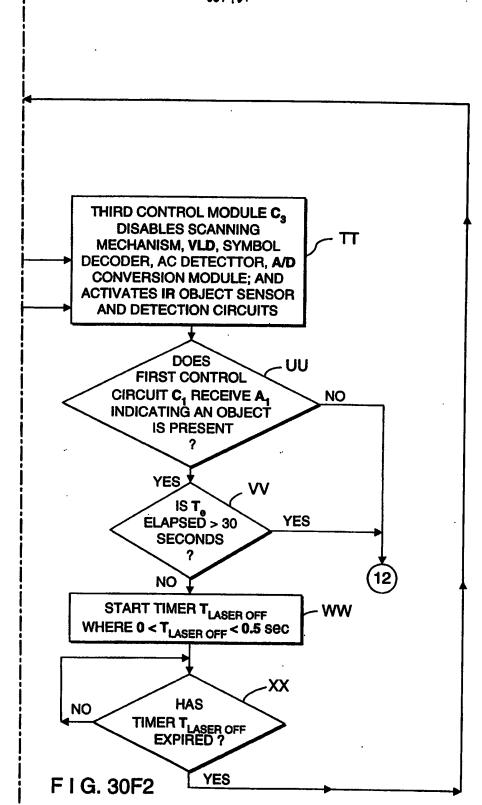


FIG. 30E





į

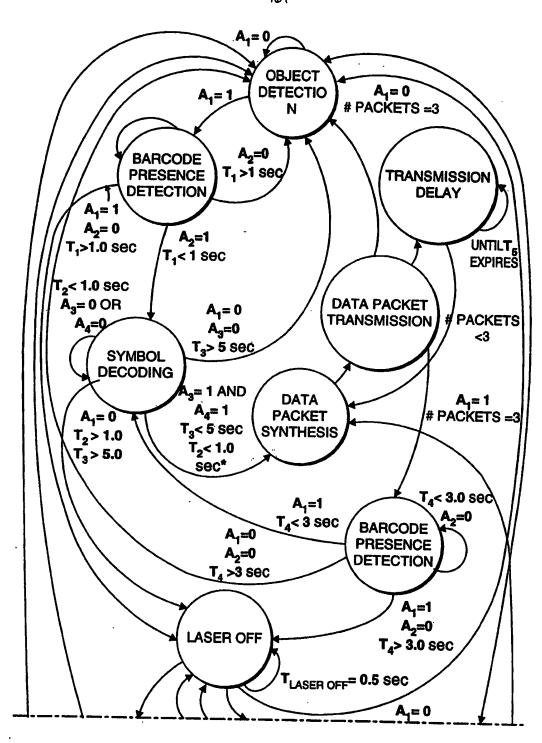


FIG. 31A

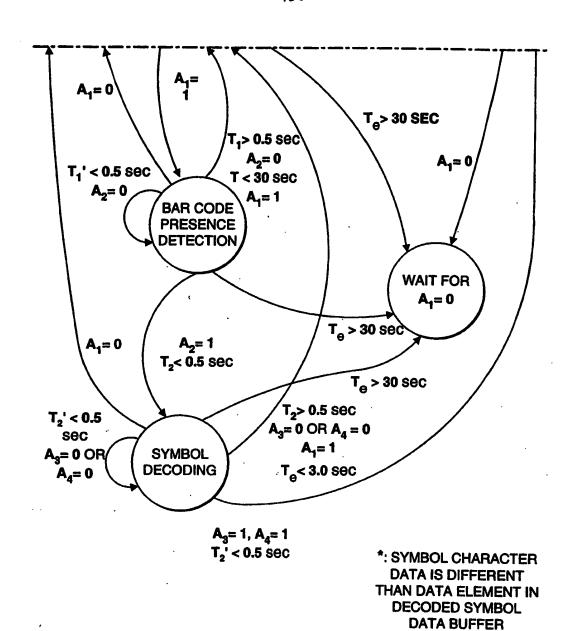
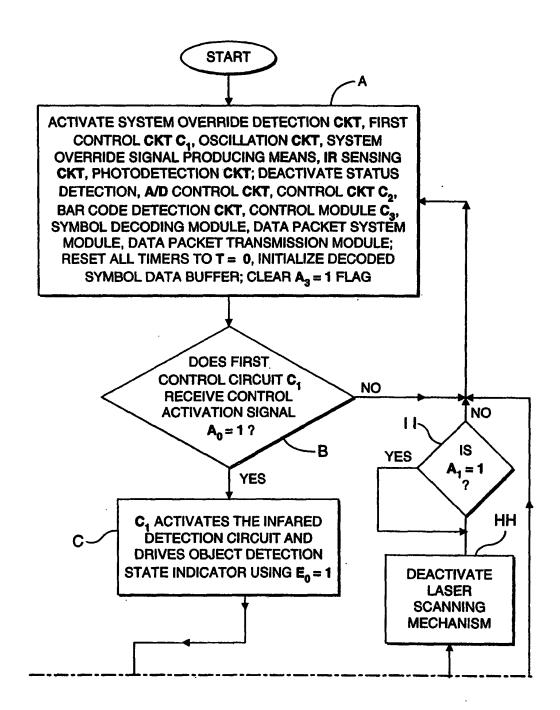
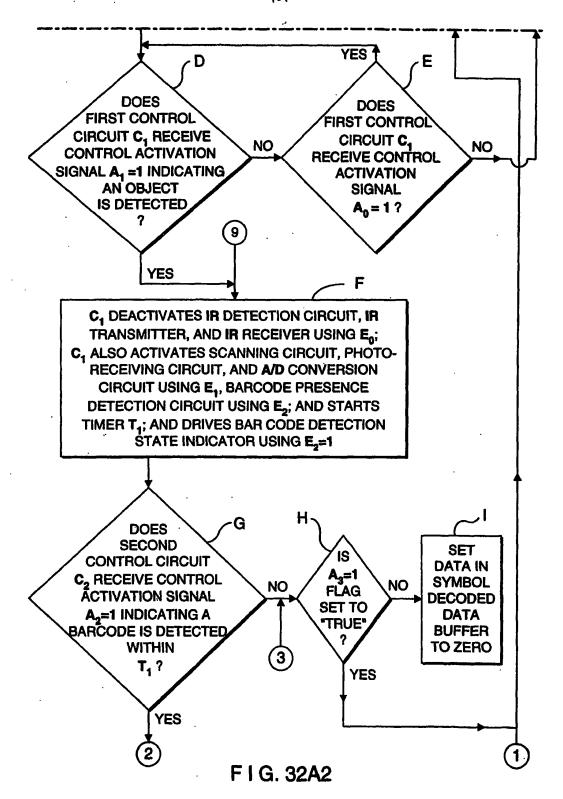
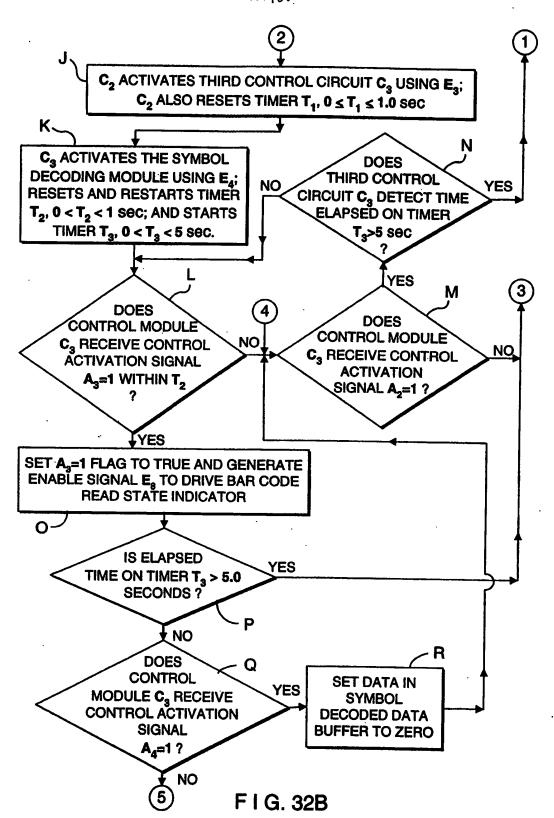


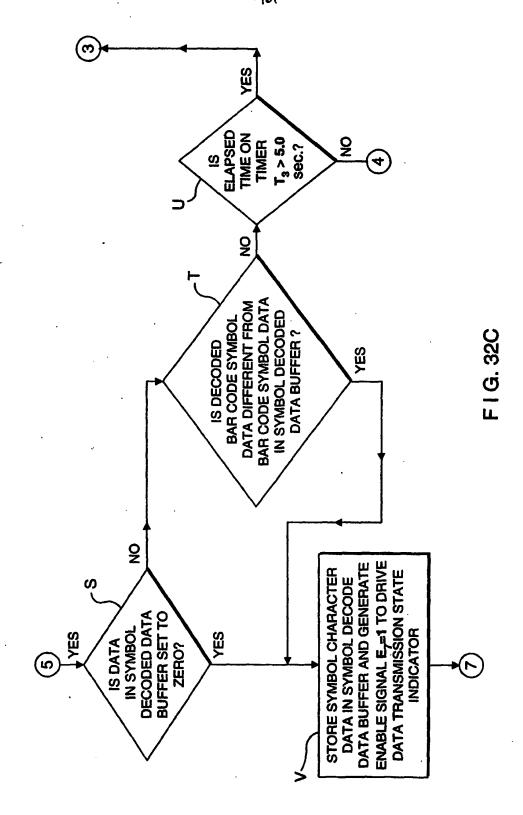
FIG. 31B

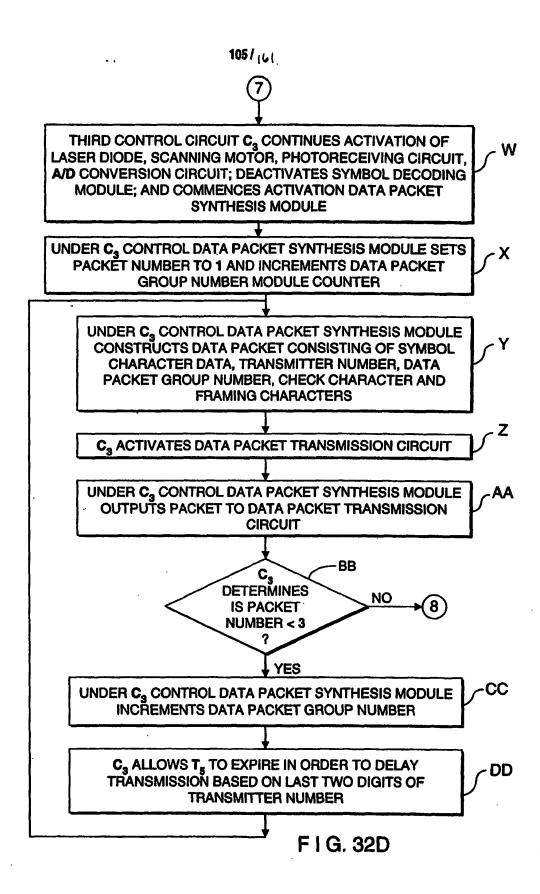


F I G. 32A1









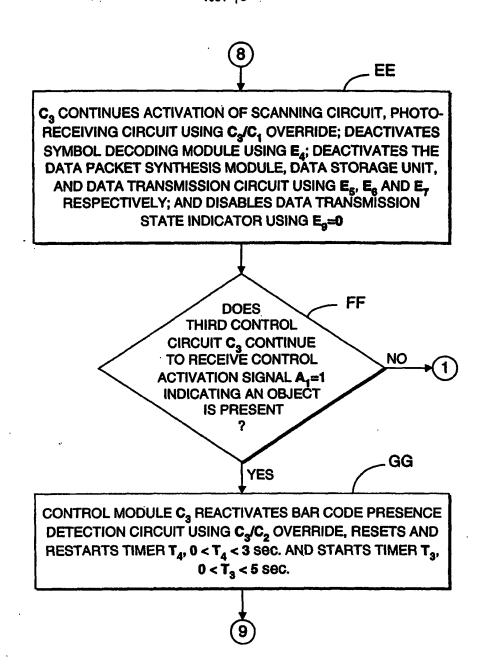
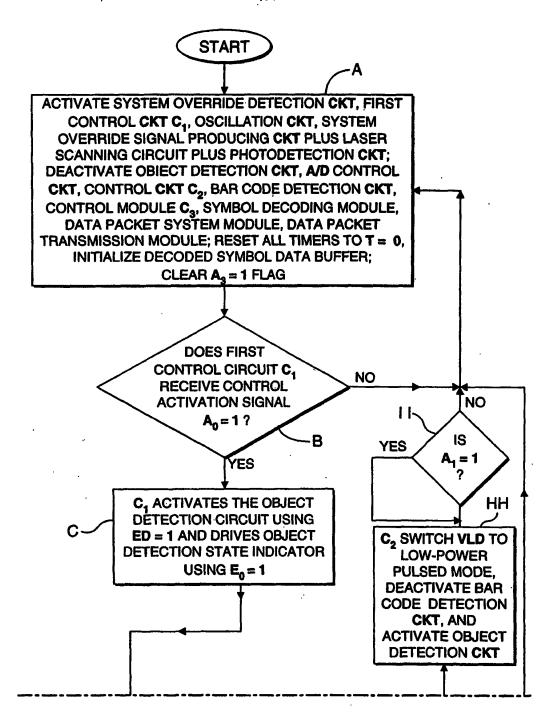
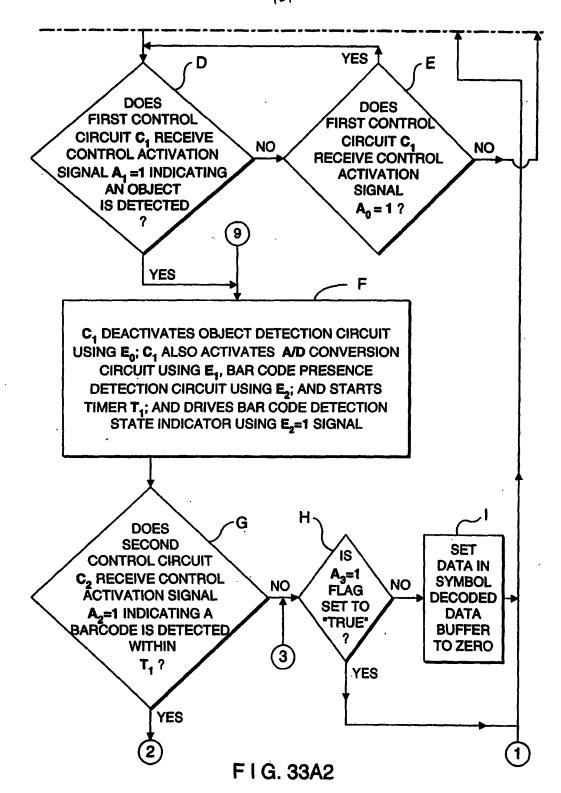
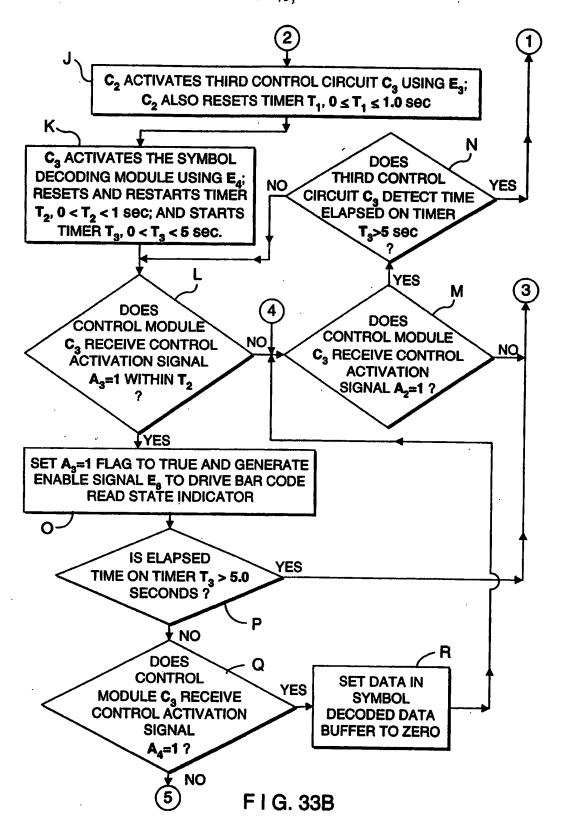


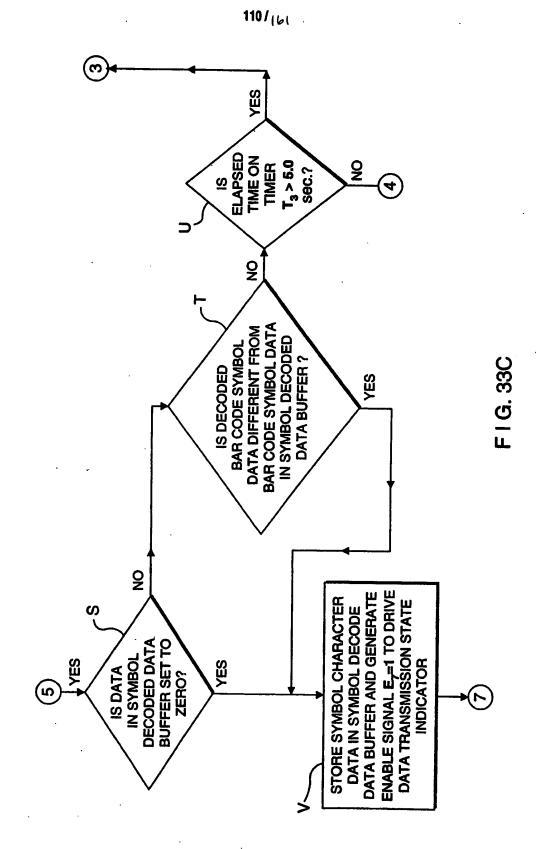
FIG. 32E

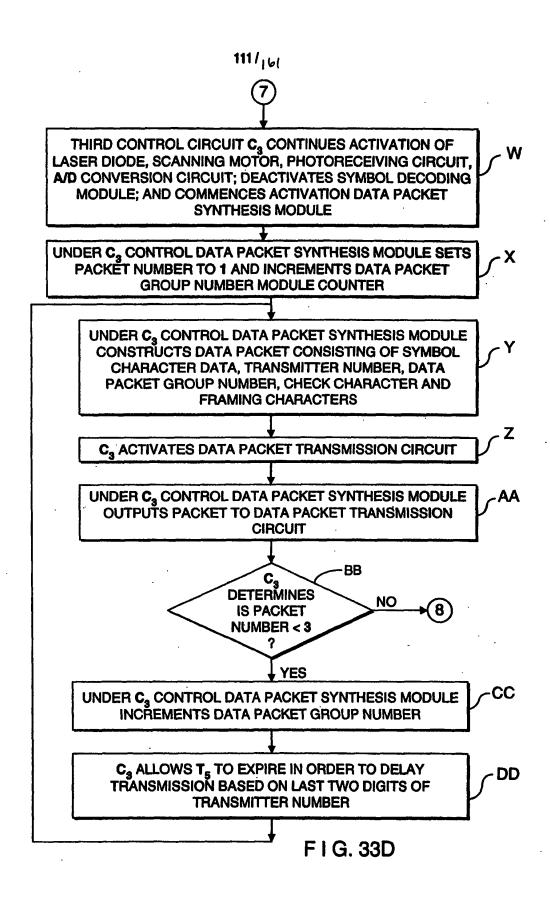


F I G. 33A1









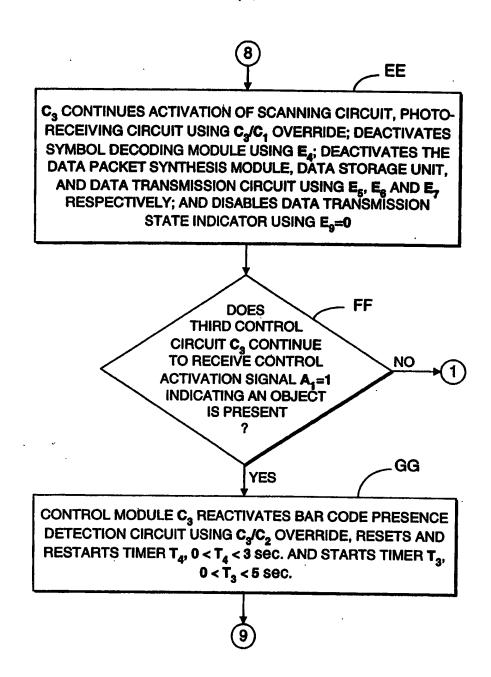
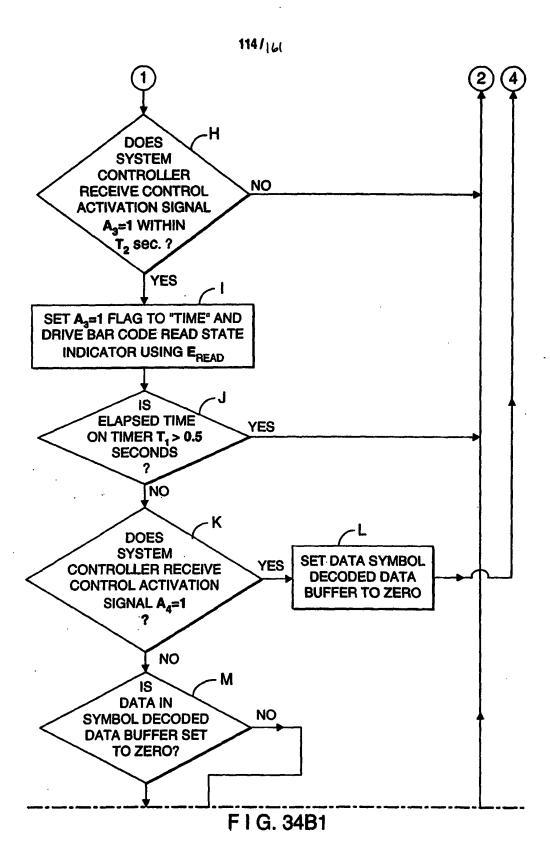


FIG. 33E



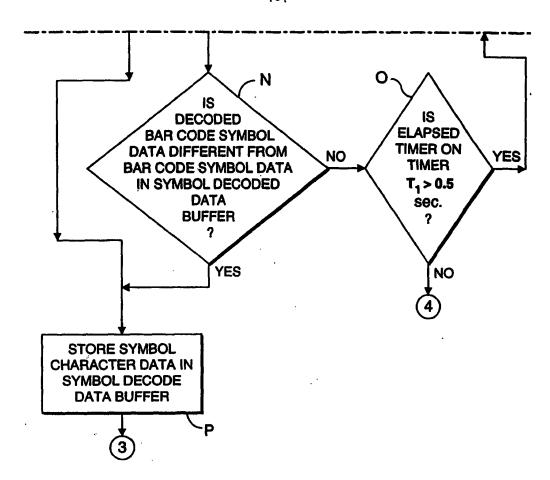


FIG. 34B2

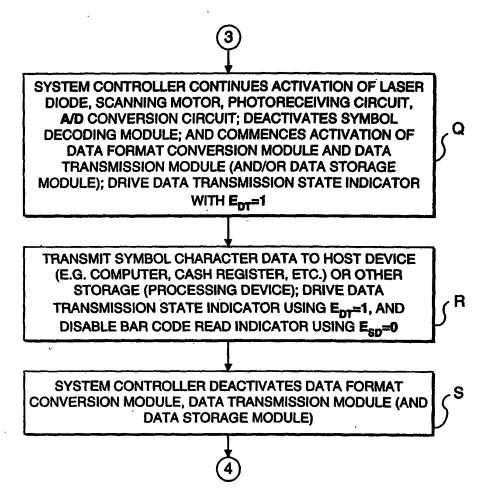


FIG. 34C

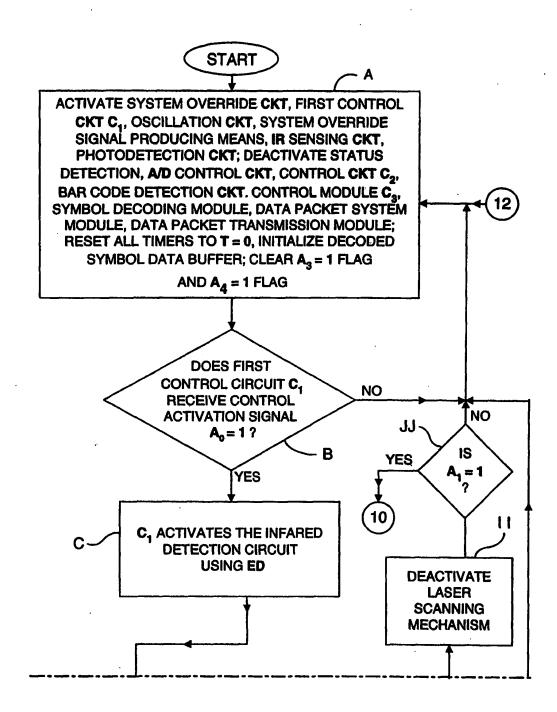
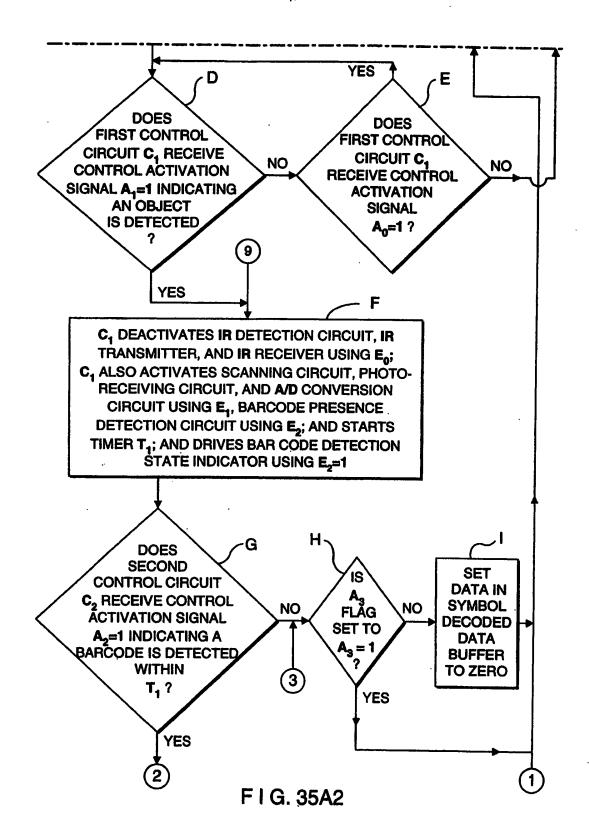
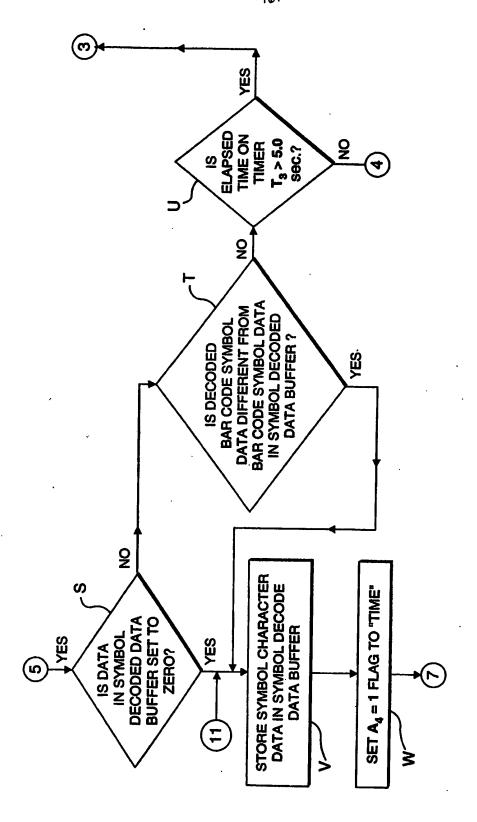


FIG. 35A1



F I G. 35B

NO



F1G. 35C

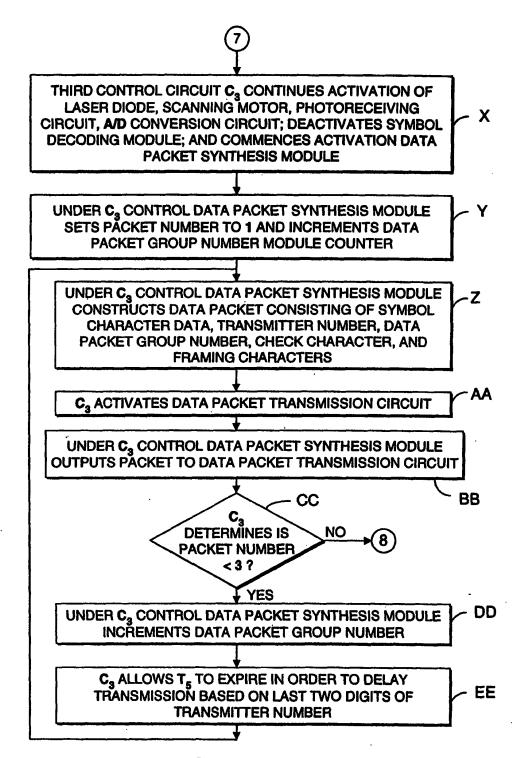
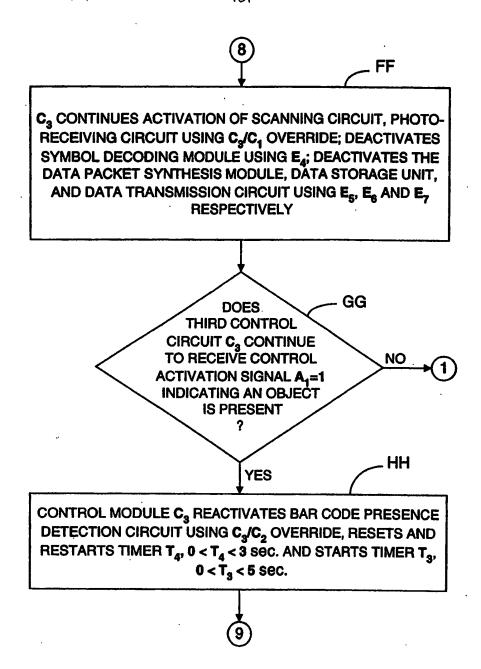
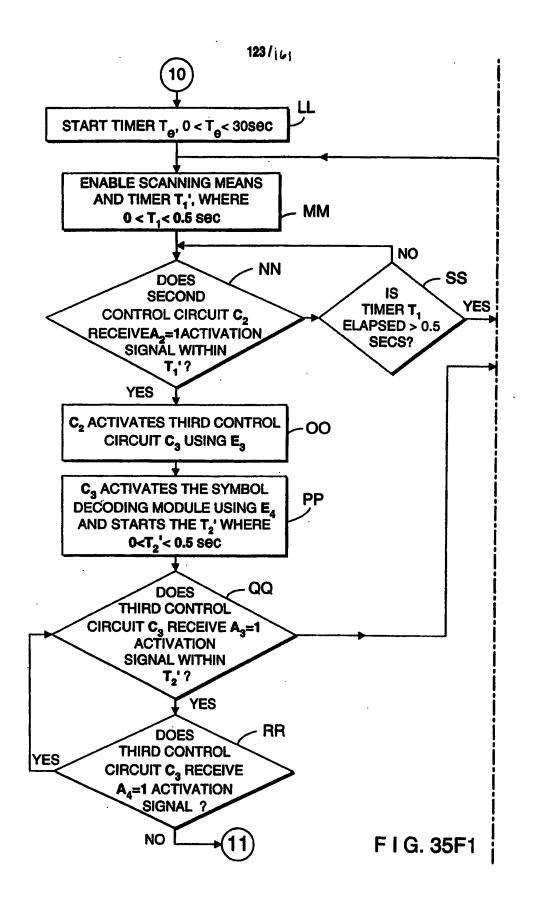
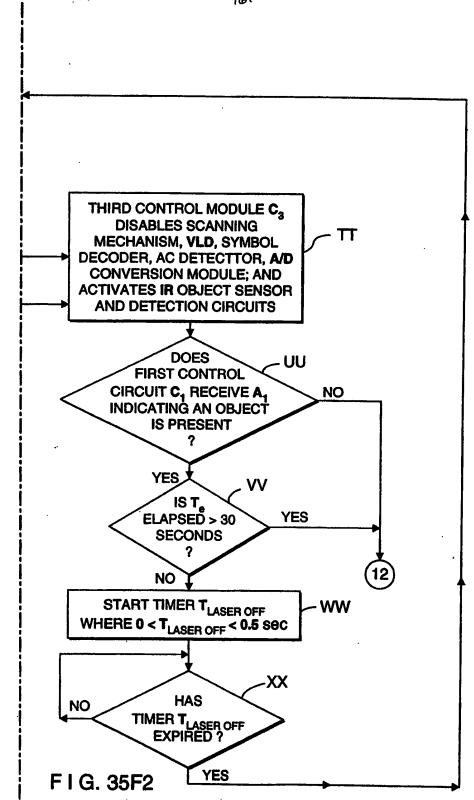


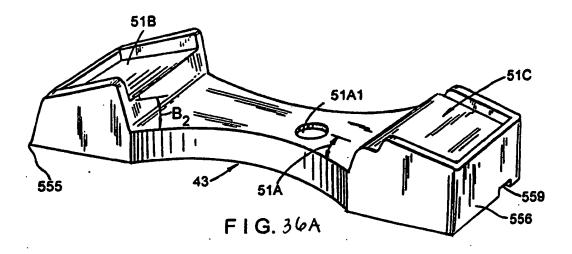
FIG. 35D

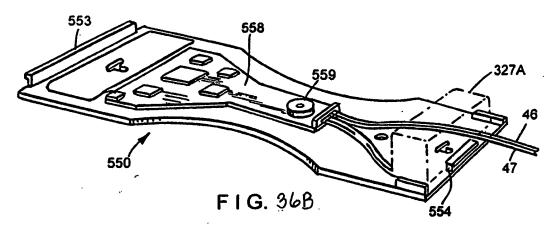


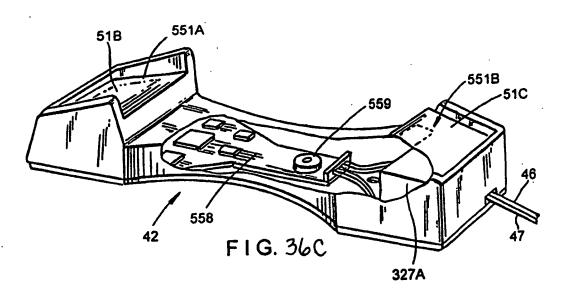
F I G. 35E

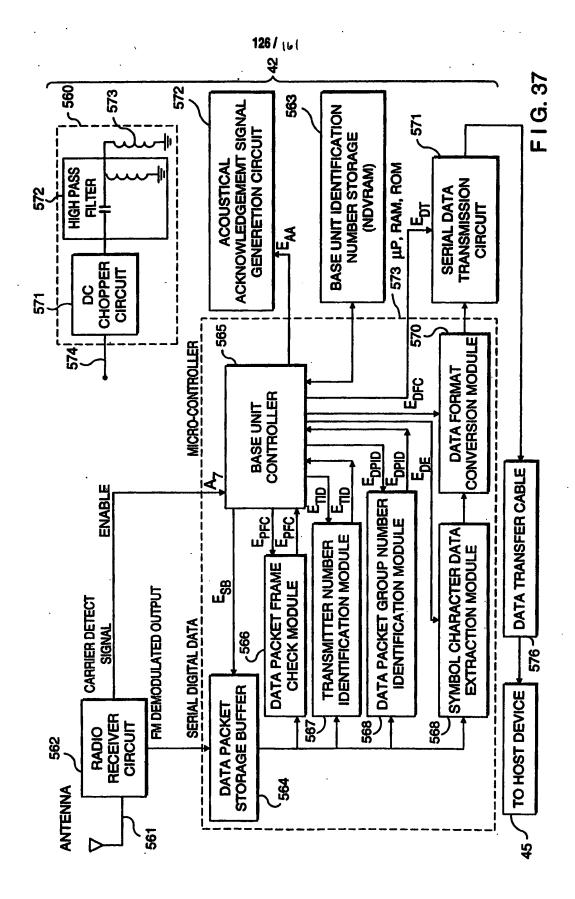


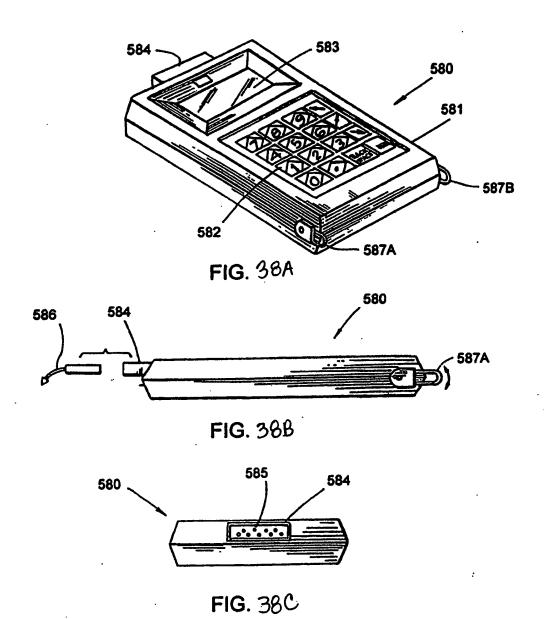












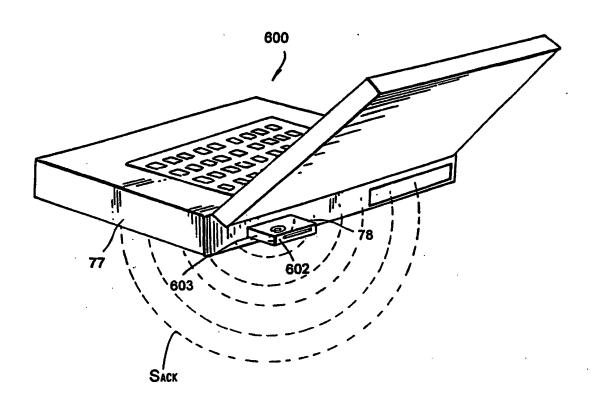


FIG. 39

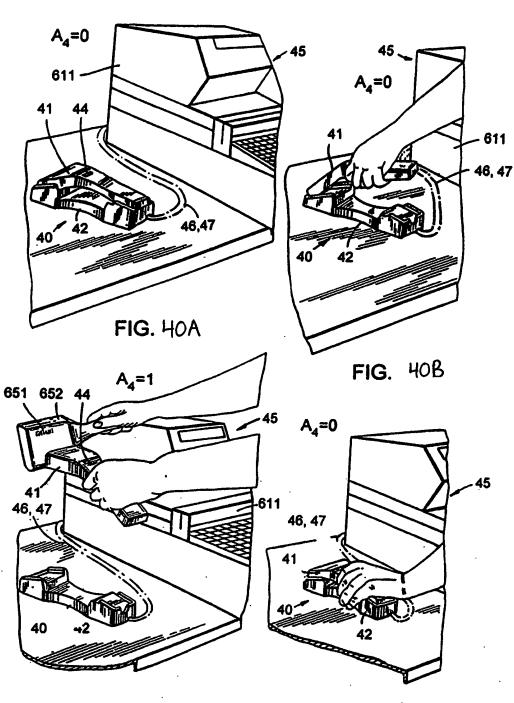
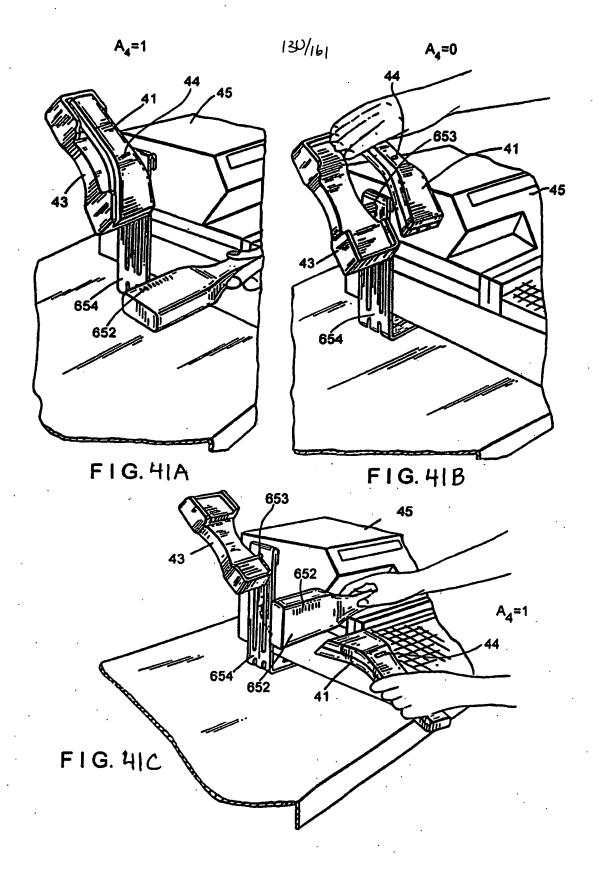
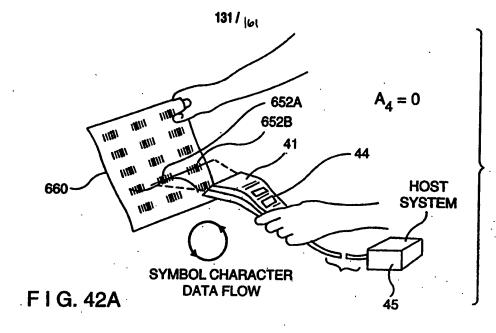
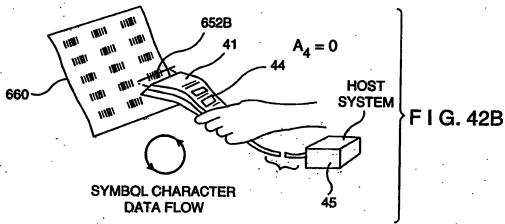


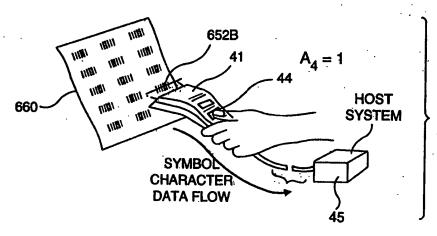
FIG. 40C

FIG. 40D

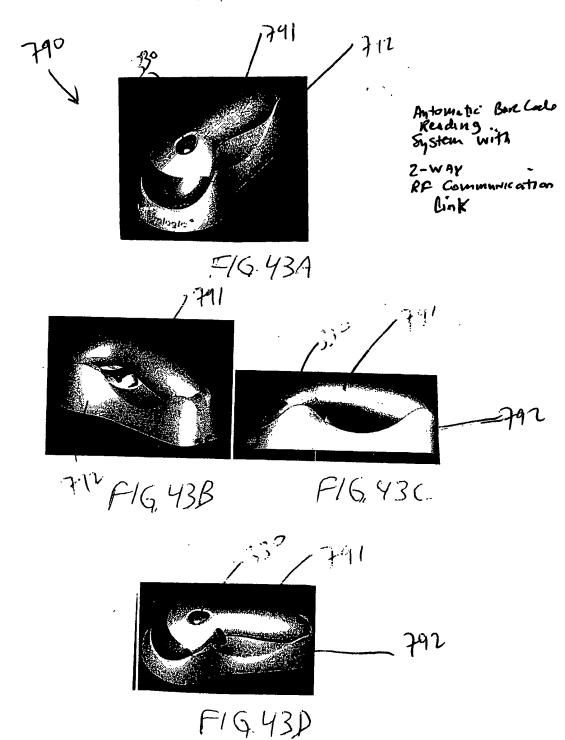




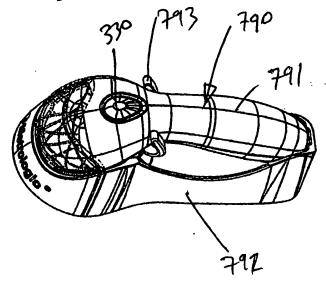




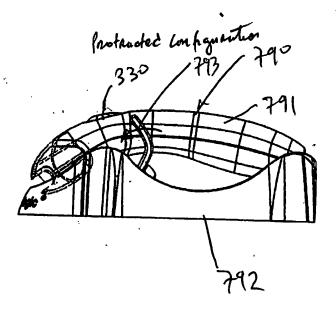
F1G. 42C



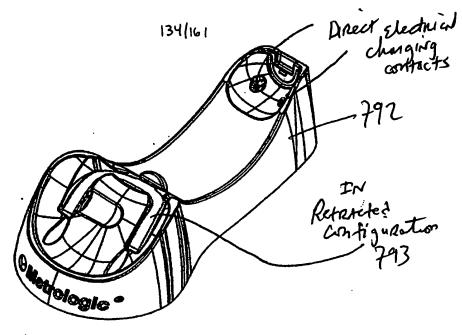
133/161 Protenter configuration 330 /793 ,79



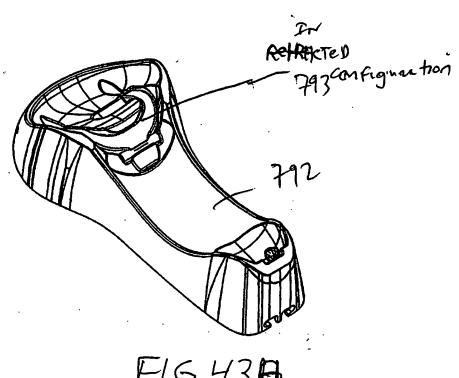
F16.43F



F16 43 E

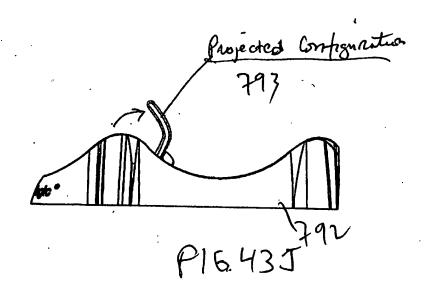


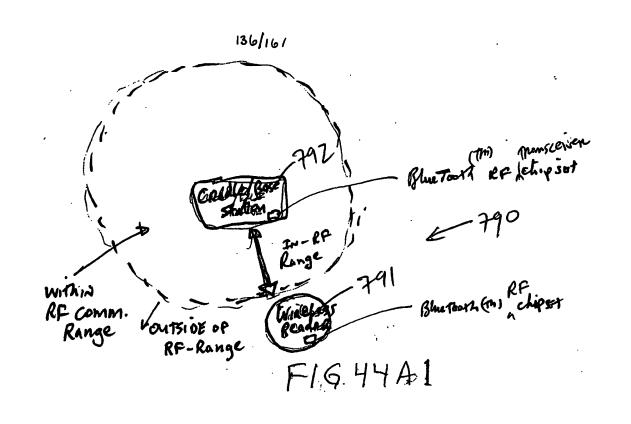
P1G. 439

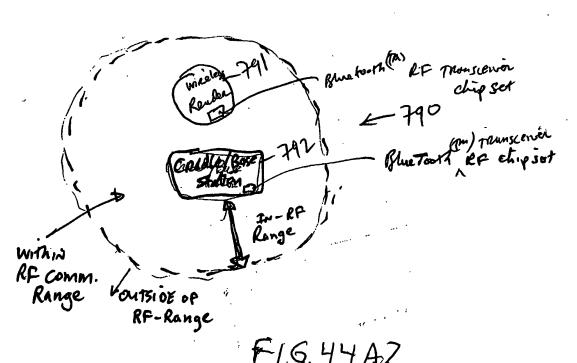


F16.43A

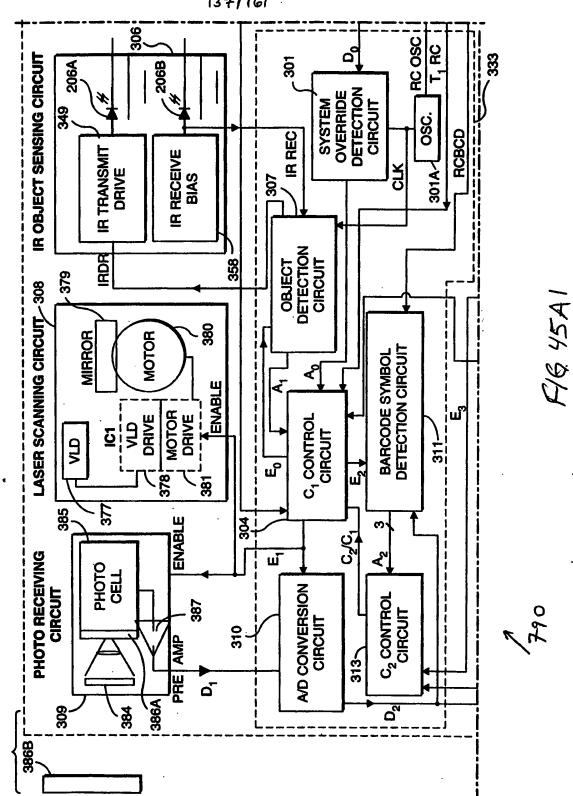
Represed configuration 793 F16.43 I 792

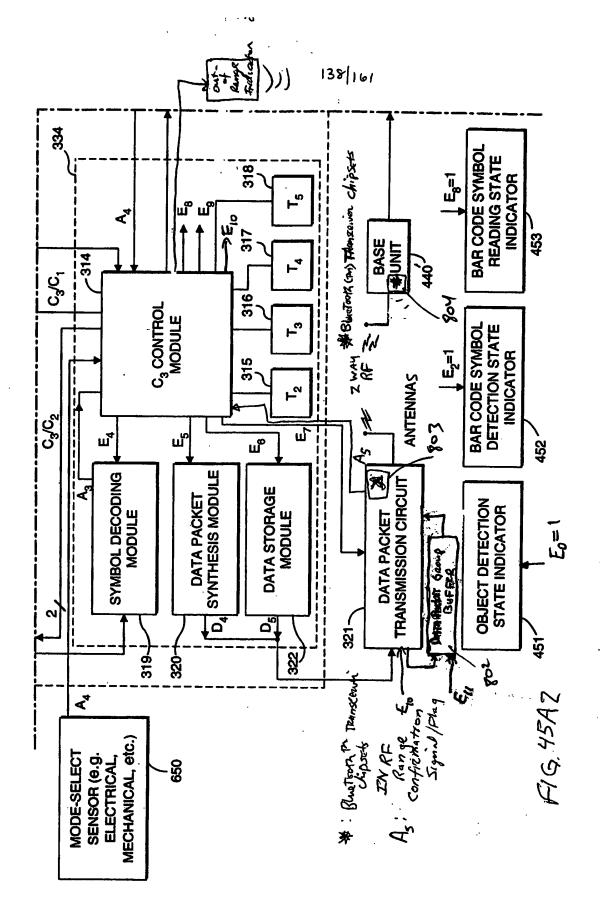






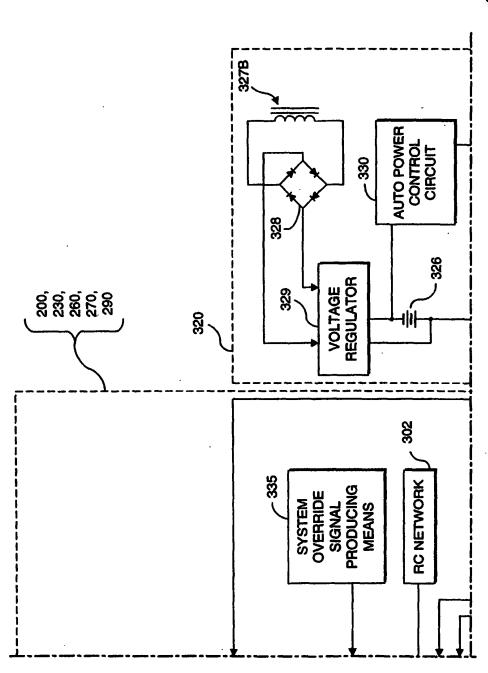
F16.44AZ

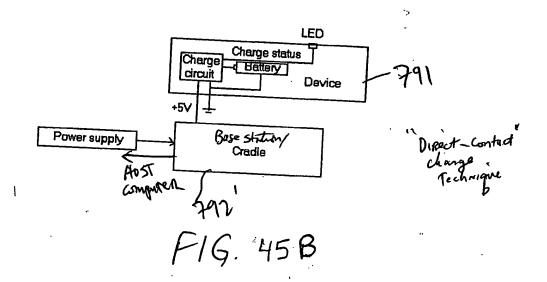




:

139/16/





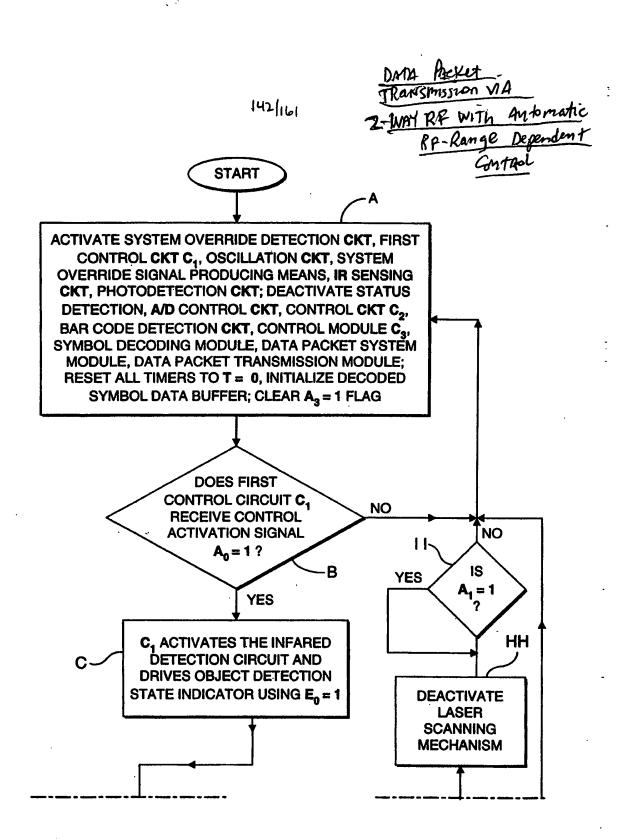
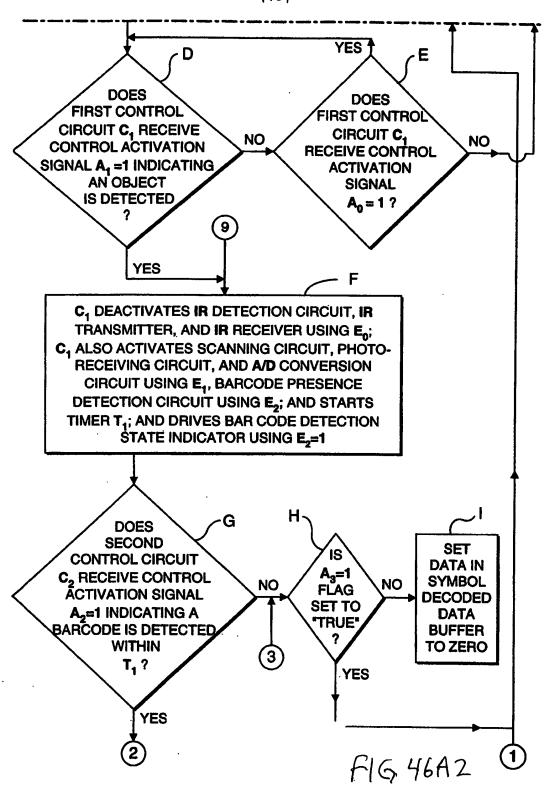
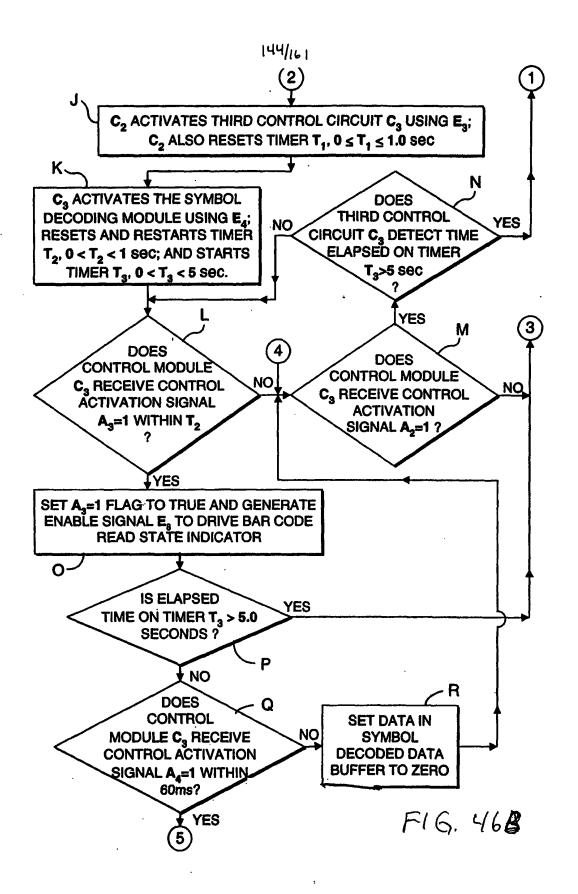


FIG.46A1





TO 4801

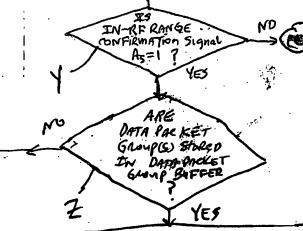


THIRD CONTROL CIRCUIT C<sub>3</sub> CONTINUES ACTIVATION OF LASER DIODE, SCANNING MOTOR, PHOTORECEIVING CIRCUIT, A/D CONVERSION CIRCUIT; DEACTIVATES SYMBOL DECODING MODULE; AND COMMENCES ACTIVATION DATA PACKET SYNTHESIS MODULE

W

UNDER C3 CONTROL, DATA PACKET SYNTHESIS MODULE CONSTRUCTS DATA PACKET CONSISTING OF SYMBOL CHARACTER DATA, TRANSMITTER NUMBER, DATA PACKET GROUP NUMBER, CHECK CHARACTER AND FRAMING CHARACTERS

χ



C3 Contant Module Ecreentes Enable 517=1

Kelonding Buffered Data Packet Groups)

INTO Data Packet Teansmission Circuit

AA

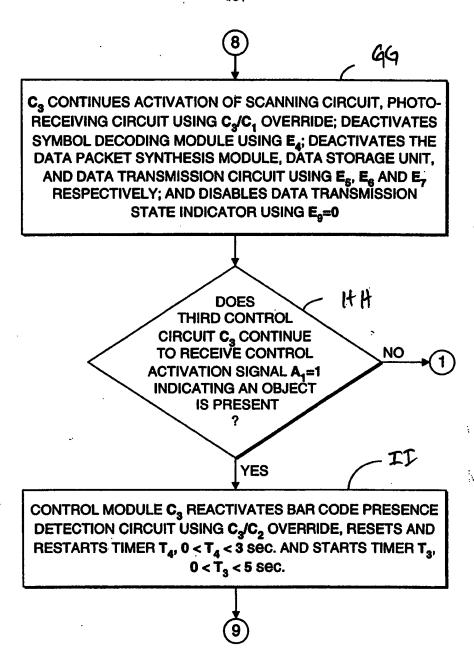
Control Module C3 Benerates Brake Signal E10=1 Coaling Comenty Synthesizes Duta facked Group Into Data Problet Transmission Circuit

BB

FIG. 46 CZ.

C3 ACTIVATES DATA PACKET TRANSMISSION CIRCUIT UNDER  $\mathbf{C_3}$  CONTROL DATA PACKET SYNTHESIS MODULE OUTPUTS PACKETTO DATA PACKET TRANSMISSION CIRCUIT FOR TRANSmission Base Station EE DATA PACKET TRANSMUSION CIRCUIT Receives a PREKET Group Action de descrit Agnot From Base STATION When BASE STATION RECEIVES ALL ARCKETS EACH DATA PACKET GROUP SENT \$3 control module generater And ite been sound (and good Read visual-indication) for each Data Packed Gump Sent To Base station Successfully

F1G. 46 C3



F16 46 C4

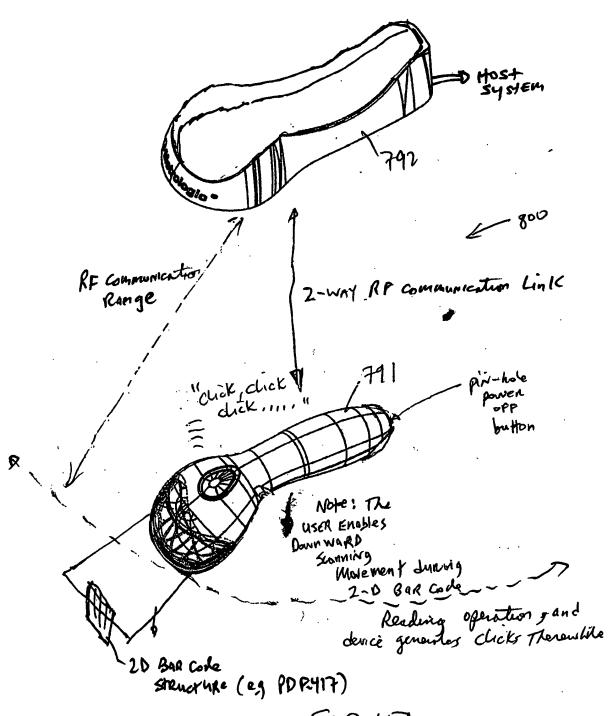
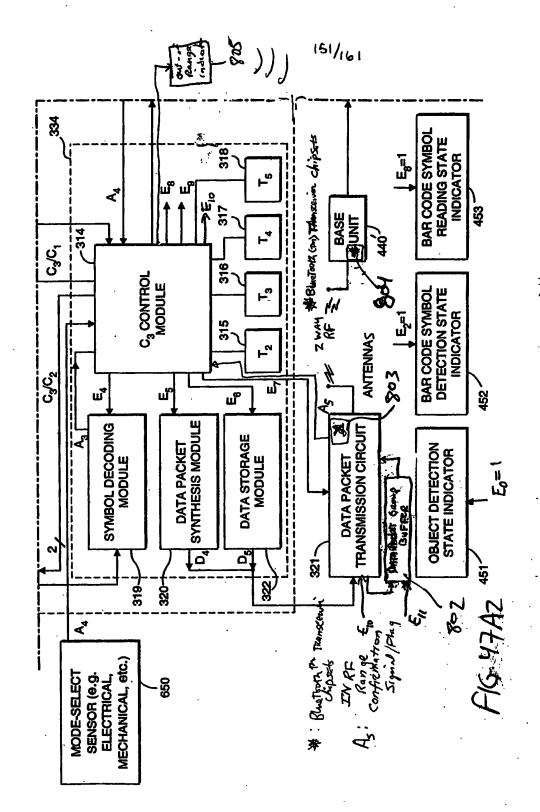
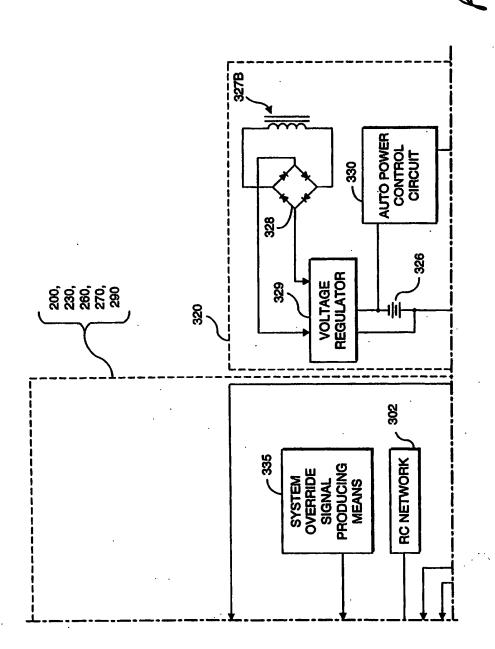
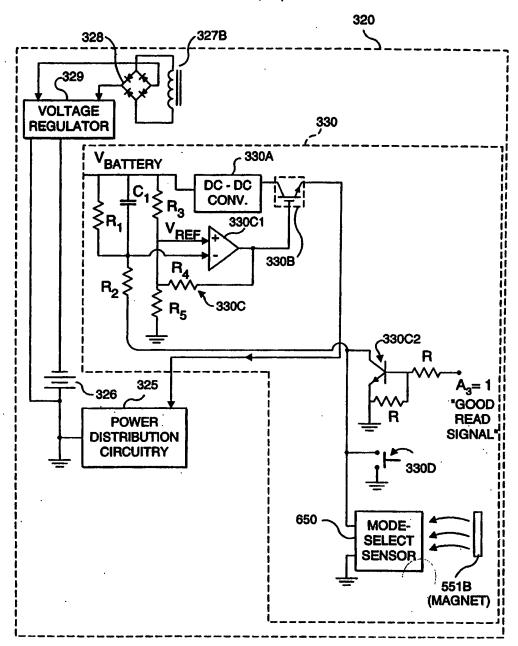


FIG. 47

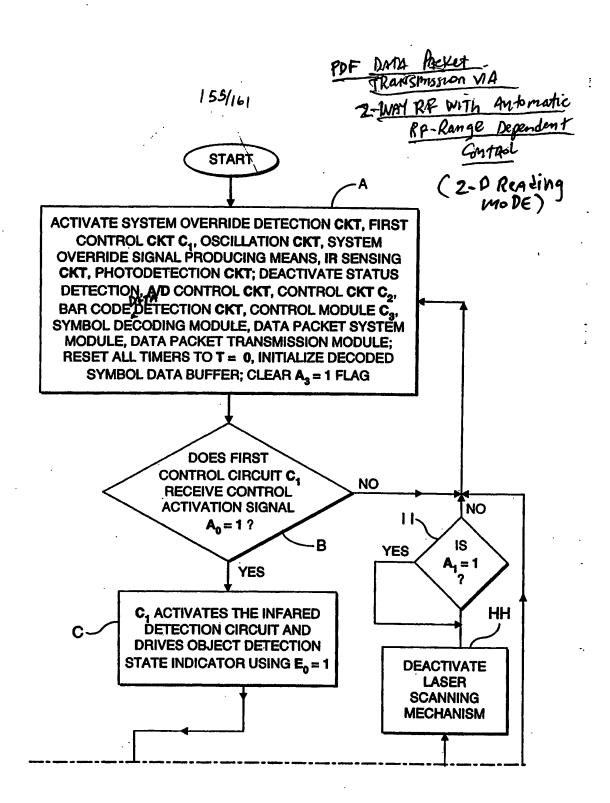
:



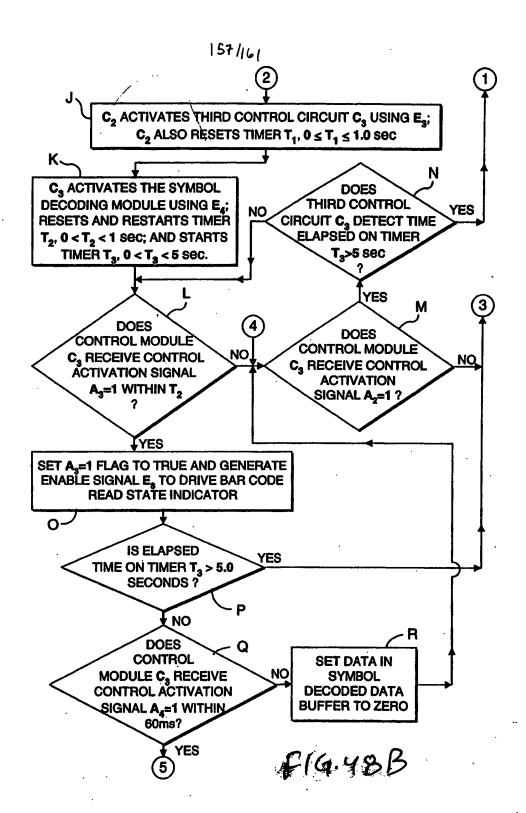


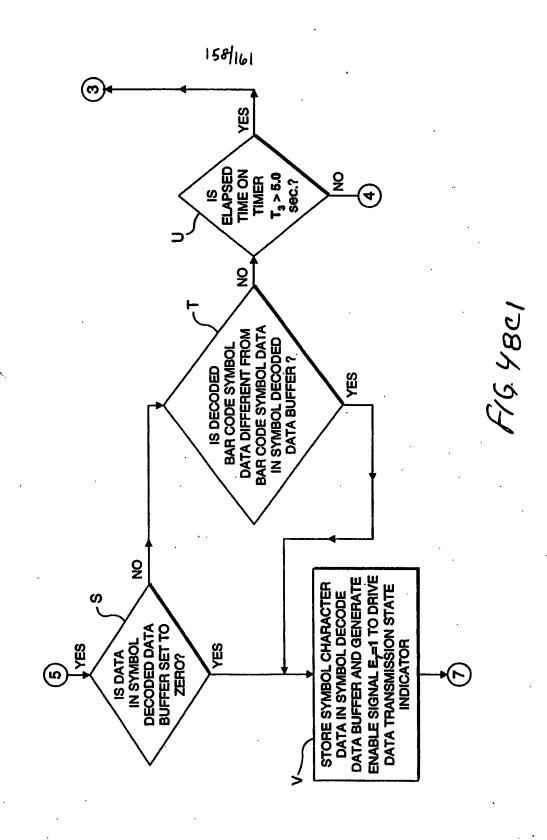


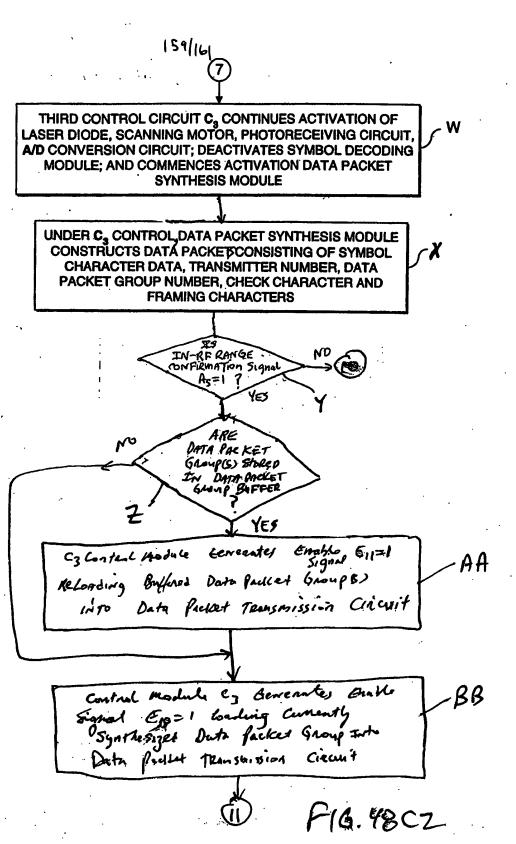
F1G. 47B



F16. 48A1







C3 ACTIVATES DATA PACKET TRANSMISSION CIRCUIT

UNDER C3 CONTROL DATA PACKET SYNTHESIS MODULE
OUTPUTS PACKETS TO DATA PACKET TRANSMISSION
CIRCUIT FOR TRANSMISSION
CIRCUIT FOR TRANSMISSION
CIRCUIT FOR TRANSMISSION
FREE STATION

BASE STATION
RESCUES A PRICE SLAND RESCUES ALL ARCKETS
EACH DATA PACKET EROUP SENT

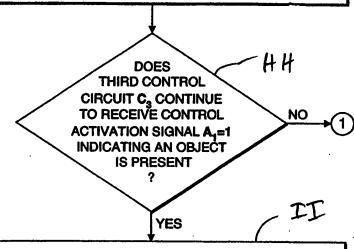
C3 Exital Undule generater
An 1.18 beep sound (and good
Read viguid-indication) for each
Data Packed Group Sent To
Base Station Successfully

F1G. 48C3



46

 ${f C_3}$  CONTINUES ACTIVATION OF SCANNING CIRCUIT, PHOTO-RECEIVING CIRCUIT USING  ${f C_3/C_1}$  OVERRIDE; DEACTIVATES SYMBOL DECODING MODULE USING  ${f E_4}$ ; DEACTIVATES THE DATA PACKET SYNTHESIS MODULE, DATA STORAGE UNIT, AND DATA TRANSMISSION CIRCUIT USING  ${f E_5}$ ,  ${f E_6}$  AND  ${f E_7}$  RESPECTIVELY; AND DISABLES DATA TRANSMISSION STATE INDICATOR USING  ${f E_0}$ =0



CONTROL MODULE  ${\bf C_3}$  REACTIVATES BAR CODE PRESENCE DETECTION CIRCUIT USING  ${\bf C_3/C_2}$  OVERRIDE, RESETS AND RESTARTS TIMER  ${\bf T_4}$ ,  ${\bf 0}<{\bf T_4}<{\bf 3}$  sec. AND STARTS TIMER  ${\bf T_3}$ ,  ${\bf 0}<{\bf T_3}<{\bf 5}$  sec.

(9)

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